

**APPENDIX A: DNA SEQUENCES**

>RXA00009-upstream

GACGACATGCGCAGGCGAGTAATCGAACTGCAATTGGGCAAAGTAGTCCGCGATGATGCC  
CACGGCGTCTACGGCGAAATGCGATAGGGGAGTACTTCAC

>RXA00009

ATGGCTTTTGGATATGTACTGCGTGAAGCTGTTTCGCGGCATGGGCGCAACGTCACCATG  
ACCATCGCGCTCATCATCACCACCTCTATTTCTTGGCACTTCTTGCCACTGGATTTTGT  
GTGACCAACATGACCGACCGCACCAAGGACATCTACCTGGATCGCGTCGAAGTGATGATC  
CAACTCGATGAGGACACCTCTGCCAACGATCCCGAATGCACCGCGGAGTCTGCACCGAA  
GTTCTGTATGTCTTAGAAGGACTCGACGGCATCGATTCCATCACCTACCGTTCCCGCGAG  
GCCTCCTACGAACGATTTCGTAGAAGTTTCAAAGATACTGACCCAGTTCTCGTCGCTGAA  
ACCTCTCCCGACGCATTGCCAGCAGCGTTCACGTCCGACTTGAAGATCCACTTGCCGTT  
GAGATTCTCGATCCGGTCCGCGATCTTCCTCAAGTAAGCAACGTGATCGACCAGGTGGAT  
GATCTGCGCGGAGCAACCGAAAACCTTGACTCCATCCGCAACGCCACCTTCCTCATCGCG  
GCTGTGCAAGTTTTGGCATCGATCTTCCTGATTGCCAACATGGTGCAAATCGCTGCATTC  
AATCGTCGTGAAGAACTGAAATCATGCGCATCGTCGGCGCATCGCGGTTCTACACTCAG  
GGACATTTCGTCTTGAAGCGATTCTATCCACCCTCATTGGTGCGGTTTTCGCCGTCGGC  
GCGCTCTTCTTGGGTAAAGAACTCGTCATTGATAAAGCACTCCGCGGACTCTACGATTCC  
CAGCTCATCGCACCAAGTTACCACCACAGATATTTGGCTGGTCGCACCGATAATTTCCGGC  
ATTGGCGTGGTGATCGCCGGCATTATCGCACAACTCACCCTGCGCTTCTACGTGAGGAAA

>RXA00009-downstream

TAAGACTATTGAACTCCTTGCCG

>RXA00010-upstream

CTTAAGAATTACCGGTTATTTGTGCTTGAGTTCTCCTCTGAGCACTCAGGGTAGTCACTT  
CCGTTTCTTTAGCCACAGGAGTTTCGCTAAAGTGTGACCC

>RXA00010

GTGATCACCTTCGAGAACGTCACCAAGAACTACAAGACATCAACCCGCCCTGCATTAGAC  
AATGTGTCCCTACACATTGAAAAAGGCGAGTTCGTGTTCTCATCGGCCCATCCGGCTCC  
GGAAAATCAACCTTCCTGCGCCTGATGACGCGGGAGGAAAACGTCAGCTCCGGATCGCTG  
ACACTGGCTGATTTTTCAGGTGAACAACTTCGCGGCACGCAAGTAAACAACTGCGCCAA  
CGCATCGGATATGTGTTCCAAGATTTCCGACTCTTAAAAACAAGAATGTCTACGACAAC  
GTCGCATTTCGCATTGGAGGTTCATCGGGAAGAAGAAGGACAAGATTCAAGAACTTGTCCCC  
GAAACTCTGGAATGTTGGCCTTGCCGGAAGCCAAACCGCATGCCCAACGAACTATCC  
GGTGGTGAGCAGCAGCGGTGGCCATCGCCCGAGCTTTTCGTGAACCGCCCACTCGTCTTG  
CTTGCTGATGAACCAACCGGCAACCTCGACCCGATACCTCCGATGAGATCATGATTTTG  
CTCAACCGCATCAATCGCCTCGGCACCACGGTGGTCATGTCCACCCACAACGCCCCGAACT  
GTCGACGACATGCGCAGGCGAGTAATCGAACTGCAATTGGGCAAAGTAGTCCGCGATGAT  
GCCACGGCGTCTACGGCGAAATGCGA

>RXA00010-downstream

TAGGGGAGTACTTCACATGGCTT

>RXA00024-upstream

TTAAGACATCAACATATGGCTTGTGCTACTGAAAGATTTTTCTTCTGAAATTCTGTAGAA  
ACGCTCCTATGCTCGGGGAGTAAGTTGTGAGCATAGGAA

>RXA00024

ATGGAGCACGGCGTGACCGTTATTAAAGGCACTGAATTTGATGTTTTCCCACTAAACCTC  
GGTGGAAATACCTTTGGCTGGACCTCGAATAGGGAACAGACCTTCGCGGTTTTGGATGCA  
TTCTGTGGCAGCGGAGGAACTTTGTTGACACCGCCGATTCTTATTCTGCATGGGTTGAA  
GGCAATGAGGGTGGCGAGTCGGAGCGGGAGCTCGGCGCGTGGATTAAGGAACGTGGCGCA  
GACAAGCTGATCATTGCTACCAAGTCTGGTGCGTTGGAGCCTGTTGCTGGTGGTCCCGT  
GAGGCAACTTTCAAGGCTGTGAGGGTTCCCTGGAGCGTTTGGGCGTGGAATCGATCGAT

ATTTTTTACTACCACTACGACGATGAGGCAGTCAGCATTGATGAGCAGGTTGCTATCGCT  
AATGATCTGATTGCACAGGGCAAGATTAAGCACCTCGCATTGTCTAACTACAGCGCGGAG  
CGTTTAGCTGAGTTCTTTGAGAAGTCTGTAGGCACTCCAGCGCAGCCGTTGCTCTGCAA  
CCGCACTACAACCTGGTGTGAGGAAGGATTATGAGGAGAACGTGCAGCCACTCGCCGAG  
AAGCATGGCGTTGCAGTCTTCCCTTATTTGCGCGCTTGCCGCGGGTCTTTTGACCGGAAAG  
TACACCTCCAAGGAGGATATTTGGGTAAAGCGCGTGCGGGGAGTTGGATCGTTACGCC  
AGCGATGAGGCGTTTGCCGTGGTGACAGAGTTGCGTGCTGTTGCCGATGAGTTGGGTGTT  
GCGCCAACGACTGTGGCGCTTGCGTGGTTGGTTGCGCATGGTGTGACCGCACCGATTGCG  
TCCGTGTCCAAGGTAGAGCAGTTGAAGGATTTGATGGCTGTGAAGGATGTGGAGCTGAGC  
GCTGAGCAGCTTGACGTTTGGATAAGGTTTTCGAGCCTTTTCGCT

>RXA00024-downstream  
TAAGCTCTCCTCAAAAGTAAGTG

>RXA00026-upstream  
CCTTTCTGGCTAGCCTAGGCTACATTGTTGGCAATTTGGTTCTACGCCGATTGCGCGT  
TGGACCTGGCTCTGCGATCTTCCCTCGAAGGATAAGTTTTC

>RXA00026  
ATGAGTACTGACAATTTTTCTCCACAAGTTCCGTGCGACTGTGTATTTGGATTACATGGAG  
CAAGGGATTGCCGCGCGCAAGCGGAGGAGCAATCTAACGCCAGCACGAAGGGGGAGAGC  
CCGGATTATCCAGGCCAGCAGGTTATTTGGCGCCTGATCCAGGAAGCAGGGGAGTCGTTG  
CGTGATGAAGTGCACACTGGCTTTCACGCTGCACGACCATCCGGAAGAAGCGTTTCGAG  
GAGGTGTTCCGACCGAGGAAATCACAAAACCTTCTGCAAAATCATGGTTTGGAGTTTCAG  
AGTGGAGTTTATGGTGTATAAAACCGCTCTAGAAAACCTAGTTTGAACCCCTGGTTATGAT  
CCAGCGCAGCACCAAGCATTGCGATCTTGGCGGAATACGATGCCCTTCCAGAGATCGGC  
CATGCATGCGGGCACAATATCATCGCAGCAGCTGGTGTGGCGCATTTTATAGCTGTCACC  
AACATGATCAAACTGCCGAAGTGAAAGGCGTGGATCACCTCGACTTTGAAGGCCGGATC  
GTGCTGTTGGGAACACCTGCTGAGGAGGGGCATTCCGGCAAGGAATACATGATCCGAAAT  
GGCGCATTCGATGGCATTGATGCGTCGATTATGATGCACCCCTTTGGCTTCGATCTGGCG  
GAGCATGTTTGGGTGGGCAGACGTACCATGACGGCGACGTTCCACGGTGTCTCTGCACAC  
GCGTCTTCGACGCTTTTCATGGGTAAAAATGCCCTCGACGCTGCAAGTTTGGCGTACCAG  
GGCTTCGGAGTTTTTGCGTCAGCAATGCCACCGAGCGACCGCCTTCACGCCATTATTACG  
GAAGGCGGAAACCGGCCAAGCATCATTCCAGACACTGCAACGATGTCGCTGTACGTGCGT  
TCTTTGTTGCCGGAAGCACTCAAAGACATATCGAAACGCGTGGATGATGTGCTCGATGGG  
GCGGCTTGTATGGCGGGGTTGGCGTCGAAAAGCAATGGGATGTGCACCCAGCTAGCTTG  
CCCGTGCGCAACAATCATGTGTTGGCGCGGCGTTGGGCAAAAACGCAGAATCTGCGTGGT  
CGAACGGCGCTTTTCGGAGGGTATTTTGGCCGACACTCTGGCAGCATCGACTGATTTTGGC  
AATGTCTCGCACCTGGTTCCGGGCATTTCATCCGATGGTGAATTTCTCCGGAAAACGTT  
GCGCTCCACACCAAGGAATTCGCCGCTTATGCGCGCACGGAAGAGGCCATCGACGCAGCC  
GTCGACGCCGCAATCGGGCTGGCGCAAGTCGCCGTTGACGCGCTTGCAGATCCGCAAAATG  
CTTATCGCGCAGCCCTCGAGTTACCAACTCCGGCGACGTAATAAGTAGGGGACTAT  
TTGGCT

>RXA00026-downstream  
TAGGCAACGACTCCGAAACCTTC

>RXA00048-upstream  
GCGAAGGCGTGGGCATAGGGAAACCTTAGCTGATCTGCGGTGACTTAAATATAAGGGGG  
TGGAATGGGGGTATTGTAAATCTGAACCTTGTTTCATTT

>RXA00048  
ATGAATCATGATTGAGAATGTGATCTAGATAATGTTGTTTCAGTTCACTATTCAAGAAGGG  
TTAGATCCCATGTACCCAATAACTTCGATACCGATGTCTGCATCGTCGGTGGAGGTCTT  
ACCGGAACGCTCCTTGCACTGCTCGGCCAAAAAGGTCACCGCGTCACCATCCTGGAA  
AAGTGGCCAACATTCTACGAACGACCTCGTGCAGTCACCTTTGACCACGAAATCGCACGG  
ATCCTTGGATACATTGGCATTGATTCTGAAAACGACGAAGCCATCGATTACCACTCCGAC  
AGCTACGACTGGAAGAACGCAGCGGGGGAGACGCTTTTGAAGTCGATTGGACCTCCATG  
ACAGATTCCGGATGGCGCACCCGATACTGGTTCTACCAGCCAGAACTTGAAAAGCGTCTG

CGCGATCTGGCCCTGACCATGGATTTTGTAGATATTCGCTGTGGCTTCACCGCTGTGCGGA  
 TTGTCCCAAGATGAAAACCTCCGCCATCATTACGGCATTTGTCATGATACCCAGAGAAC  
 ATTCCAGCAGATGCTCAGCGCGAAGATATCCGAGCGAAGTATGTCATCGGTGCAGACGGA  
 GCTAACAGTTTCGTGCGTAACCTCCCTTGGCTTAGAGATGAATGATCTTGGATACTTCTTC  
 GACTGGCTGATCCTGGACCTCAAGCCAACTCAGGACATTGACTACGGAACAGATCACTGG  
 CAACTGTGTGATCCCAAGCGCCCAACCACCATCGTTTCTGGAGGCCCCGGCCGCGACGT  
 TGGGAATTCATGGCGCTGCCTGGTGAAGATCTCAAGGAACTCGCTTCTGAAGAAAGCGCG  
 TGGAACTCTACTTGAGCCATGGGATGTCACACCTGGCAAGGCCATTCTCGAGCGCTCCGCA  
 GTGTATCGATTCCAAGCTCGCTGGGCCCAGGAATGGCGCTCCGGAAGAGCTCTCATCGCA  
 GCGGATGCCGCTCACCTCATGCCACCTTTCGAGGTGAAGGCATGTGCGCTGGCCTGAGA  
 GACTCACTGGCGTTGGCATGGCGTCTTGATTTGGTGTGAGCGGAAAATCAGATGATGCA  
 TTGCTAGACACCTACGGAGAAGAAGCCGCGAACACGTCCACTACTACATTGATTTCTCC  
 ATGGACCTGGGCAATGTCATCTGCATTACTGATGAAGATGAAGCACGTTTGCGCGATGAG  
 CGCATGATTAAAGAGCTTGAAGCACAGACGGGGTCCCTGTTAATACCGATGTGCGACAC  
 TTGGGACCGGGAATTTGGGATAAAGATTCTTCCCATGGTGGCGAGCTAGCGAAGCAGGGC  
 ATAGTGAATACCAAGGTCGAAAGGCGCGTTTCGACGACGCAGTCGGCCGTGGCTGGGCA  
 GTTTTAGGCCTCAACACTGATCCACGAGAAGTGCTTGATGAGGATTCGCTTGTGGCACTT  
 GACGCCATCGGTGCAATCGTCGAATCAGTAGGTGATGCAACTTCCGCAGTTTATAGATT  
 GAAGGTCTTTACACTCGCTGGCTCAAGGAAGCCGGGGCAACATTTATTATTACCCGCCCC  
 GATTTCTACGTCTATTCCACAGCAGTGGACGCTGAACAACCTCAAACACAGATTAAGCAG  
 CTATCGGATCTACTTCACCTCAACTCAGTTGTGCGGAGCA

>RXA00048-downstream  
 TAGGAGCTAAAAATGTCTTTACA

>RXA00070-upstream  
 CCACTCGTCTCGACATACTTCTCCTGGCACTAAACGCAGGGGTTGACACATCTGGGTAG  
 ACTATCGAAGTACATTTTGTGTCATTGAGGAGGATCAACG

>RXA00070  
 GTGGGTATCAATCGCATCAGCCAAGGCTCTGCCCCGAAGCTGGGAGTGCGAAGCACCAGA  
 CAGCGAAAAGCCGTAATTGACGTTCTTGAGGAAATCGATAACTTCGCTTCCGCCAAAGAA  
 ATCCATCAGAGCTATCCACAGGGAACACAACGTCGGCCTCACAACCGTCTACCGAACC  
 CTCCAATCCCTCGCCGACATCGGAGCAGTCGACGTACTTACCGTCACGGGTGGAGAACT  
 CTGTACCGCCAATGCCACGACGAGGGACACCACCATCACCTGGTCTGCACCAATTGCGGT  
 CGCACAGTCGAAATCGATGGCGGTCCAGTAGAGACATGGGCACAGGAAATTGCCACTAAA  
 AACGGCTTTGCTCTCAGTAGTCACGAGGCTGAAATCTTTGGACTTTGCGCTGATTGTAAG  
 GAAAAAGTTACG

>RXA00070-downstream  
 TAGTTCAAGGACATATGAAGCTG

>RXA00072-upstream  
 ACGGCCAGGACGATCCAGTGCACAGGCCAGCACCAGCAAAGTCCACATCGCAAGCATTAA  
 AAGAATCTCTCGAAAGACACAAAAGAGGTGAGTCGCAACA

>RXA00072  
 ATGAGCTTTCAACTAGTTAACGCCCTGAAAAATACTGGTTCCGGTAAAAGATCCCGAGATC  
 TCACCCGAAGGACCTCGCACGACCACACCGTTGTACCAGAGGTAGCAAAACATAACGAG  
 GAATCGTCGAAAAGCATGCTGCTGCGTTGTATGACGCCAGCGCGCAAGAGATCCTGGAA  
 TGGACAGCCGAGCACGCGCGGGCGCTATTGCAGTGACCTTGAGCATGGAAAACACCGTG  
 CTGGCGGAGCTGGCTGCGCGGCACCTGCCGGAAGCTGATTTCTCTTTTTTGGACACCGGT  
 TACCACTTCAAGGAGACCCTTGAAGTTGCCCGTCAGGTAGATGAGCGCTATTCCCAGAAG  
 CTTGTACCGCGCTGCCGATCCTCAAGCGCACGGAGCAGGATTCCATTTATGGTCTCAAC  
 CTGTACCGCAGCAACCCAGCG

>RXA00078-upstream  
 CGGTGCTGAGGAGGGTGACATGTCTGGAAGCAGATTGACGCATGCTTTCTAGCGTAATGT

GGGTCACAGAAAATGCTCTCGCTTGAAGGCAGGAATCCG

>RXA00078

ATGAAAGCCGATCTCACCCCGTACCGTCAGTTCAATGGAAATGCCAAAGAAGCAATGGAG  
TTCTACCAAACAGTTTTTGGTGGCGAGCTTCAGATGATGCCGTTTTCCGCCATGCATTCT  
GAGGAGGAAGTTGGTGGTGACGGCGAGAAAATCATGCACGCTGAGCTGGTCGTTGATGGT  
CAGAAGTTGCTTTTTGCCAGTGATATTCGCGCGTGATGCAACGAATGAAGGGCGAGGAC  
ACTCCGTTGTGCTGACTGGTGGCGCTGAGCTGGAAGAGGAAATTCGTGGCTACTGGGAG  
AAGTTGTCTGAGGGCGGCACCGTGACCATGCCTTTGGAAGCTGTTCCCTGGGGTGCGGTT  
TATGGTGGCTGGAGGATCGCTTTGGAACCTACTGGATGTTCAACATCGGTGGC

>RXA00078-downstream

TAAAACTTTTGGAACTTATTGA

>RXA00088-upstream

GCTGTGTTACTTTTCATCTTTAGGTAACCTACCCTCACTAAAGCTCTGGGAATACTCTGGC  
AGTTTTGGTGGATTATTTTATAGACTTTCAAAGGACGAC

>RXA00088

ATGGTGAAAAACCGATTCAAGCTAGTTTCAATCGCAACTGTTGCGGCCCTGGCGCTCGTT  
GGCTGCTCTTCCACCGACAGCACCTCTCCGAGTCTTCTCCGCTGCAGAGTCAACCGCT  
GCAGCTAGCACCTGACTATCGAAGACAACCACGGCACCGAAGGGATCTCCCTGCCAATC  
GAGGGCGTCGCTGCGACCGACAACCGCGCATTCGAACTGCTTGATCGCTGGGGTGATAGAG  
CTCGTTGCAGCTCCACTTCAGCTGGTTCCATTTACCGTTACGGGCTACACCGAAGAGGGC  
GGCGTCGTAACCTTGGCTCCCACCGCGAGCCAGACCTGGAAGCACTTGCTGCTGCACAG  
CCTTCCCTGATCATCAACGGCCAGCGCTTCGCTCAGTACTACGATGACATCATTGCCCTG  
AACCTGACGCAACCGTTGTTGAGCTAGACCCACGCGATGGCGAGCCACTTGACCAGGAG  
CTTATCCGCCAGGCTGAAACCTCGGTGAGATCTTCGGCGAAGAAGAAGATGCTGCAAAG  
ATCGTTGCTGATTTTCGAGTCCGCACTTGAGCGCGCTAAGACCGCATACGCAGCAATCTCC  
GACCAGACCGTCATGGCAGTTAACGTTTCCGGCGGAAACATTGGCTACATCGCTCCTTCC  
GTTGGACGCACCTACGGTCCAATCTTCGACCTGGTTGGACTCACCCAGCACTCGAGGTT  
GGCAACGCGTCTCCGACCACGAGGGCGACGACATTAACGTGGAAGCAATCGCAGCTGCA  
AACCCAGACCTGATCCTGGTCATGGACCGCGATGGTGGCACCAGCACCCGCAACGAAGCT  
GATTACGTTCCAGCAGAGCAGATCGTCTCCGACAATGAAGCACTGGCAAACGTCAAGGCT  
GTCACCGACGGATACGTTTACTACGCACCTGCAGATACCTACACCAACGAAAACATCATC  
ACCTACACCGAGATCCTCAACGGCATGGCAGATATGTTTCGAGAAGGCAGCTCAG

>RXA00088-downstream

TAGGGGATCGATCCACACTGAC

>RXA00100-upstream

GTTTTGCGGTGTTGAATTGGGTGTTTAAATGTGCAGTGGGCGTGGGGAATGCTCATTGCGT  
ATCCGCTTGTTTTACATGCGGTGATCGCGCGGAGTAAACG

>RXA00100

ATGATTTTGGATTGGGTTATCTCCATCATGGAGGCACTCGGCGCCGTTGGCGTGGGTGTC  
GCGGTGTTTTTGGAGAACGTTTTCCCGCCGATTCCAAGTGAGGTGGTGCTTCCGCTCGCG  
GGTTTACCACCACGCAAGGCGATCTCAATGTGTGGGCGGCGCTTATGTGGTGGTGATC  
GGGTGCGTTTTCCGGAGCGTTTTTGCTTTACGGGTTGGGGCGCTCAATCGGGGCGGCACGG  
TTGCGGCAGGTCGCCGACTGGATGTGGCTTGTGACGCGACCGACGTGGATAAATCCCTA  
TCGTGGTTTCGAAAAGTACGGGAAGTATTCGGTGTTTTTCGGTCGGTTGGTGCCGGGTGTC  
CGAAGTTTGATTTTCGATTCCGGCGGGCGTCGACAAGATGAATCCGGTTCTCTTCGGTGTC  
CTCACTGCGGTGGGCGACCATTTGGAATGCGGTTCTGATTTGGACTGGTGTGTGGTTG  
GGGGCGGAATGGGAGACGGTGTGATGTGGTTTGAGAGCTATTCAACGATCATTTACGTA  
GGTATCGCGCTCATTGTNGCTTACGTGTTGTTTGGTTTAGTCCGTCGCCGAATTAAAACT

>RXA00100-downstream

TAACCATCGGTTTCGTAGCCGAAG



>RXA00111-upstream  
 CCGAGAAGCTGGAGAAGGCCAACAAAGCGTGGCCTCTACACCTCCGCGTCCTTCCACAGCC  
 CCGGCGCCATCACTGGCGACCCTAAAAAAGGAGACTTCG

>RXA00111  
 ATGGCCTTTTTTAGCTTTTCGACGTCTCCCTCACCCGCCTCATCCCCGGCAGCCGCTCC  
 AAAGCCACAGGCGCCAAACGGCGCCTGAGCAGCACAATCGCGTCGATTGAACGCTCCCCC  
 GGCATCATTGCCCTAGACGGACCGTTACCCACGATCACGTCTCCGTACGTGGCATTTCGC  
 CTCCATTTAGCAGAGGCGAGGCTCCCCACCAAACCCCTGGTTCTTCTGATCCACGGGGCT  
 TTCGGCGGTTGGTACGACTACCGCGAAGTCATCGGCCCCACTCGCAGATGCCGGCTTCCAC  
 GTCGCGCCCATCGATCTACGCGGCTACGGCATGTCCGACAAACCCCCAACAGGCTACGAC  
 CTCGCGCCACGCGAGCCGAGAACTCAGCAGCGTTATCGCAGCTCTCGGCCACGATGACGCA  
 CTTCTTGTCGGCTCCGACACCGGCGCCAGCATCGCCTGGGCTATCGCTTCCATGTACCCC  
 GAACGGGTCCGCGGCCAATTTCCCTCGGCGCGATCCACCCCTTGACATGCGACGCGCC  
 ATCCGACGAAAACCCACCTACACGTCTCTGACCTCAGCCGACTTGCTCCTTTTCGGTTG  
 CCCTCATTCTGCATAACCTCTTCCACTTCGGAATCACCAGCGAAGCTCGACGTGAGATC  
 GTCAACAACACGTCTCTCGTCTACCAGCGCAGCAACGCATTACAGAGACAGTGCTCCTC  
 CGAAAAAAGCACTATCGATCGACCACACCATCACCCCGATCATCCGCACCAACCGCTAC  
 CTCGTTGGGTCGATCCCCAGCAAAACAGTCTCCGCACCGGTGTGGCTGCTCAGAACCAAC  
 ACTCGACGCTGGGAACATCTAGCCAATACTGCGCGCACTCGAACGACAGGGCCATTACC  
 ACCATCGCGATCCCCGGCGGCTACGAACTCCCTACCTCGAGAACCTTCCGAATTTGCA  
 GCAACCATCGCAGAGTTTCGCGCGCACCAAGTTT

>RXA00111-downstream  
 TAAGCACTGTGGCTGAGGCGCTG

>RXA00112-upstream  
 GCGTTAGGCTGACGGGCTCCGGTGGCCTAAAATCGAAGCGATCTAAAAATTTGGCAGTTA  
 ATATTATCGATTTTCGAAAGCGTAGAACACCAAAACCATTG

>RXA00112  
 TTGAGCCCCAGCCTGGTCGTCGATGCCGTATCGTCTCGTTATGGCATTTCGCCCTGTGG  
 GGTGGTTGGCGTCAAGGCGCCTTCACCTCGTGTGTCCACCGTCGGCGTCGTTTCTGGC  
 CTGGTAGTTGGCGCAGCAGCAGCTCCATTTGTATGGGTCTCACCGATTCCACCGCGCTT  
 CGCTTCCTCCTGGCGATCGGCACCGTGGTGTGTGGTTGGTTTGGGAAATCTCATCGGC  
 GCCCACTTGGGTGTGCGATTAGAGACAACATCAAATTCCGAAGTTCAGGACCTTAGAT  
 TCTGGGCTCGGCGCCATTTTCCAAGTATTGGCCACCTTGATCGTGGTGTGGCTCGTCGCA  
 ATTCCCCTGGCCACAGGCTTCCCGGAAGTGTGCCAGCGGAATTAGAGACTCCCGCATC  
 CTGGGCTTTGTAGACAAATACACCCCGCAAGGCTAGATACCCTGCCCTCCAAAATCGCT  
 GCGATGCTCAGCGAATCCGGCTCCCAACCTGATTTCCCCCTTACCGGCGGATCCTCG  
 GTGGAAGTGGACGCCCCGAAATCAACGTACCAACGTTGACCTAGTCGAAGCAATGCGC  
 CCGTCCGTATCCACGTGATGGGTGACGCCAAGAATGCAGCCGCGACTCATGGGTTCT  
 GGCTTTGTGGCATCCCCGACTACGTTGTGACCAACGCCACGTTGTTGCAGGTACCTCC  
 ACCGTACGCTGGATACCATGATCGGAACCGCTCCGCAGAGGTAGTGTTCTACGACCCG  
 AACCTGGACATCGCAGTCTTTACAGCCCTGACCTCGGCTTGGATCCACTGCCGTGGGCA  
 TCCACTCCGCTAGACACTGGCGATGAAGCAATCGTCATGGGATTCCCACAGTCCGGACCT  
 TTCAACGCTCCCCAGCCAGGGTCCGCGAACGCATCATGATCACCAGGAGCAACATTTAC  
 GCCAACGGCCAGCACGAACGCGAAGCCTATTAGTCCGCGGATCCATCCAATCTGGAAAC  
 TCCGGCGGCCCAATGACCAACGAAATGGGTGAAGTGGTTGGTGTGTTCTTCGGCGCAGCG  
 ATCGACGGCTCCGATACCGGTTACGTTCTCACTGCCGAAGAGGTACAGGAGCGGATCGGC  
 GACATCACCAGCGCTGACTCAGCCTGTGATACGATGCAGTGCAGGTTTCT

>RXA00112-downstream  
 TAGTCGTCGGGAGCTAGGACCAG

>RXA00133-upstream  
 GTTACATCAGATGAGGATGCCCTATGGGTGTACACATGCGACGGGTGATTGCAGGAGGA  
 AATTTGAAGGTGGATACCCAGCGGATTAAAGATGATGAAG

>RXA00133

ATGCTATTTCGTTTCGGCGGCTGACATCGCTGAAAACCGCAACAGGCATCCCAGTCACCATG  
TTCGCCACTGTGTTGCAGGACAATCGCCTGCAAATTACTCAGTGGGTTGGGTTGCGTACC  
CCGGCTCTGCAGAATCTGGTCATTGAACCAAGGTGTGGGCGTTGGTGGACGCGTCGTCGCA  
ACCCGTCGTCGGTTGGTGTGAGTGATTACACCAGGGCAAATGTCATTTACATGAGAAG  
GATTCGCGGATTAGGATGAGGGCCTTCATTCCATTGTCGCAGTTCCTGATCGTGCAC  
CGCGAAATTCGTGGCGTTTTGTATGTTGGCGTTCCTCTGCGGTGCGTCTCGGCGACACT  
GTTATTGAAGAAGTCACCATGACTGCGCGCACGTTGGAACAAAACCTGGCGATCAACTCC  
GCGCTTCGCCGCAATGGCGTTTCCTGATGGTTCGCGGTTCCCTCAAAGCTAACCGCGTGATG  
AATGGGGCGGAGTGGGAGCAGGTTTCGTTCCACTCATTCGAAGCTGCGCATGCTGGCAAAT  
CGTGTGACCGATGAGGATCTGCGCCGCGATTGGAAGAGCTTTGCGATCAGATGGTCACC  
CCAGTCCGCATCAAGCAGACCAAGCTGTCCGCGCGTGAGTTGGACGTGCTGGCTTGT  
GTCGCGCTCGGTACACCAACGTCGAAGCTGCTGAAGAGATGGGCATCGGCGCGGAAACC  
GTCAAGAGCTACCTGCGCTCGGTTCATGCGCAAGCTCGGCGCCACACGCGCTACGAGGCA  
GTCAACGCAGCACGCCGATCGGCGCACTGCCT

>RXA00133-downstream

TAAAAAGATTTTGCTTTACGACG

>RXA00135-upstream

CCCCGGTTCGCGTATAGATCTTGGTTAAATGAACGGCCATAACTTGAGATTCTAGCTGTC  
GTTACGCACAGGGGTGGGGAACACGGATAAGGTGGGGCAC

>RXA00135

GTGAAAGACAAGTTTTTAGTCACTGGTGGAGCACAGCTGCAGGGCGCTGTAAAAGTTTAC  
GGCGCAAAAACAGCGTTTTGAAGCTCATGGCAGCAGCACTTCTCGCTGAAGGCACAACA  
ACTCTAACCAATTGCCCCGAAATCCTCGACGTCCCCCTGATGCGCGACGTCCTCGTTGGT  
CTTGGCTGCGATGTCAACATCGACGGCTCAACCGTAACCACTTACTACCCCTGCAGAACTC  
AGCTCCAATGCTGACTTCCCAGCAGTCACCCAATTCCGTGCATCCGTATGTGTGCTTGGT  
CCATTGACAGCAGCTTGTGGTTCGCGCAGTTGTATCCCTTCCCGGCGGTGACGCCATTGGA  
TCCCGTCCACTCGACATGCATCAAAGCGGCCTGGAAAAGCTTGGTGCCACCACCCGCATT  
TCCCACGGTGCAGTAGTTGCAGAAGCTGAAAAGCTCGTCGGTGCCAACATCACCTGGAT  
TTCCCGTCCGTGCGCGCCACCGAAAACATCCTCACTGCATCCGTGCATGGCAGAAGGACGC  
ACAGTATTAGATAACGCAGCGCGCGAACCAGAAATTGTTGATCTCTGCCGTATGCTTCGA  
TCCATGGGCGCCAACATTGAAGGTGAAGGAAGCCACCCATCACCATCGAAGGCGTAGAG  
AACTCACCCCAACTCAGCACGAAGTAATCGGCGACCGCATCGTTGCCGGAACGTGGGCA  
TACGCCGCTGCGATGACTCGTGGCGATATTACAGTTGGCGGAATCGCACCAAGGTATCTG  
CACCTTCCATTGGAAAAGCTCAAGATCGCCGGCGCCAAGGTGGAAAACCTACGAAAACGGC  
TTCCGCGTCCAAATGGATAAGCAGCCTGAGGCAACCGACTACCAAACCTCCCGTTCCCA  
GGGTTCCCTACAGATCTGCAACCCATGGCAATTGGAATCAACGCAGTATCTAATGGAAC  
TCAGTAATTACAGAGAATGTCTTGAATCACGATTCCGCTTCGTGATGAAATGCTTCGC  
CTGGGCGCTGACGCGAATGTGATGGGCACCACGTAGTAATCCGAGGAATTGAACAGCTT  
TCCTCTACTTCCGTGTGGTCTTCAGATATCCGTGCAGGAGCAGGACTGGTCTTGCCGCC  
CTTTGCGCAGACGGAGTGACCGAAGTTCACGATGTTTTCCACATCGACCGCGGATACCC  
AATTTCGTGGAAAATCTGCAGAACTCGGAGCGACCATCGAAAGGGTTTCTTCC

>RXA00135-downstream

TAACGAAGCCTTCCCATCAAGCA

>RXA00137-upstream

TTTACAGAGTGCTTATGAGGCAATCAGCCACTAAGTGTTGAGTAATCTACTAGTTTGGAC  
TAGAAGTTACCCACTTTCAGTGAATTTTAAAGGAGAGAAC

>RXA00137

ATGGCTTTGGCTGATACCCGATTTGCCACTCGTCGTCGCGCACTTGCCGCAAAACTGGCA  
GCTCAACGGATCGACTCAATTTTGGTGACAAGCCCGATCCATGTTGCTATCTCAGCGGA  
TTCACCGGCTCCAACGGCGCACTGATCGTGAACAAAGATCTCTCCGCGCAGATCTGCACC  
GACGGTCGCTACACCACCCAGATCGCAGAAGAAGTCCCGGACATCGAGGCGCTGATTGAG  
CGTGCTCGGCAACGACGCTGCTAGCGCAGGTGAAGGGCCGCGTCGTATAGCAATCGAA

GCCGCACAAACCACCCTGGACCAGCTAGACAGCCTGCGTGAAGCAACCCAGGAAGACGTC  
 GAGCTGATCCCCGTGTCTAGGTGTTGTGGAATCCATTCGCCTGACCAAAGACAGCTTCGAA  
 CTCGACCGCCTCCGCGATGTCTGACGCGTGGCTTCCCAAGCATTCTGAAGATTACTCGCA  
 GCAGGAGAACTCGCCGAAGGCCGATCAGAGCGCCAAGTCGCCGCCGATCTGGAATACCGC  
 ATGCGCCTGTTGGGAGCAGAACGCCCCAGCTTCGACACCATCGTGGCCTCTGGACCTAAC  
 TCCGCGAAACCACACCACGGCGCAGGCGACCGCATCCTCCAGCGCGGCGATCTAGTCACC  
 ATCGATTTCTGGCGCACACGCACGCGGATTCAACTCCGATATGACCCGCACCCTCGTTATG  
 GGCGAAGCAGGGGAGTTCTGAAGCAGAAATCTACGACATCGTCTGCGCTCCCAACTCGCT  
 GGTGTTGAAGCAGCCTACTCAGGCGCCAACCTCTTCGACATCGACGCAGCATGCCGCAA  
 ATCATCGAAGACGCAGGCTACGGCGAATACTTCGTGCACTCCACCGGCCACGGCATCGGA  
 CTTGAAGTCCACGAAGCCCCAAGCGCATCCAAAACCTCACAAGGAGTCTTAGAAACCGGC  
 TCCACACTGACCATCGAACCCGGAATTTACGTCCCCGGAAGGGCGGCGTACGCATCGAA  
 GACACCCTGATTATTACCTCAGGAGCACCGGAAATCATCACCAGGTGAGTAAGGACCTC  
 ATCGTGGTG

>RXA00137-downstream  
 TAATCTAGGTGAGCTAATCGGTC

>RXA00139-upstream  
 GACCGGAAACGTACTCAAGGTAGACACCCGCGACGGTTTCTACCTCTCCCGGTTAACAA  
 CTAAGATTCTTAAAACCTTTAAGAATCAGCCAGAAACATT

>RXA00139  
 TTGATTGAACAGGAACAAAGAGAACAAAACGTGAGCGAGCGTCGACAAGATTACAAGCGA  
 CACGGATCCCGCTACAAGGCGCGCATGCGTGCCGTAGACATCTATTGAAGCGGAATCC  
 CGCGATGTTGATCCCGTGGCCATCATCGATGACCGCCACAAGTTGGCGCGCGATACCAAC  
 CCCATCGTTGCACCGGTAGCGGAATACACCGAAACCATCATCAATGGCGTTGCCGTTGAA  
 CTCGATACCCTCGATGTCTTCTCGCGGAACACATCGCAGAAACCTGGACTCTCGGACGA  
 CTCCCATCCGTCGACCGCGCAATCCTGCGCGTCTGCTTCTGGGAAATGATCTACAACGCC  
 GACGTTCTGTCTACACCGCAATCGTTGAAGCCGTGGAAATTTGCCCTCCGAATACTCCGGA  
 GACAAATCCAGTGCCTACATCAACGCGACACTTGACGCCATGGCATCAAAGGTGGAGACC  
 CTCCGCGAGCGCGCCGCCAACCCAGAAGCAGTTCTGGCGGAAGCTTCCGAATCTCTCGAT  
 GATGCTCCGGTTCGCGCGGTGGGATGACTCGGATGCTTTGGATGACTCGGATGAAGATTTT  
 GAGGCTGTAGATGCTGCTGAGGTTTTTGGAGGCTGAAGAGACTGTAGAGGTTTCCGAAGTC  
 GCAGAAGACTCTGAAGTTTCAAAGGTTTCAGAAGAAAAGGCTGACGAGAGC

>RXA00139-downstream  
 TAAATCTTTTCTGGCTAACACCA

>RXA00143-upstream  
 GGACACCCGGTGTATACCCACTGGGACCTCATAAATCCACTGACTTGGAGAAGCCCCGTGT  
 GAGTCTGACCACAAGCCATTTTATTCCTTTTCCCCGAGAA

>RXA00143  
 ATGGTCTGGGATTGGCATACCCGCAAGGGCGCTGTCTGCACGTCTGACTCCCCCATTCATC  
 CCACTTAACCCCATACGCAGGCAGAACGCCTCGCCGACGGCACCACCATCTTCAGTCTC  
 CCCGCGGGACTTAAATGGGTGGCACGCCACGATTTATCCGGGTTTTTGAACGGGTCACGC  
 TTCACCGACGTCTGCCTCACCGCCCCGTGTGAAGGCCCTCGCAAACTGGCGCCACGTGCAT  
 AATTTCTGTCGACCAAGACGGCGGCACACTCATCACAGATTCCGTGAGCACCCGCCTACCG  
 GCATCCACACTCACGGGCATGTTTCGCCTATCGCCAAACTCAGCTCATCGAAGACCTAAAA  
 TTCTTAAGTAGAACAAGCAGCTTTTTCGACGGCTCCCCCTCACCGTAGCCATCACCGGC  
 TCCAGGGGGCTCGTCCGGCGCGCTGACAGCGCAGCTGCAAAACCGCGCGGCCACGAAGTC  
 ATCCAACCTCGTGCGCAAGAACCACCAACCTGGCCAACGTTTCTGGGATCCACTCAACCCA  
 GCATCCGATCTCCTCGACGGCGCGGATGTTTTGGTTACCTTGCCGGCGAACCGATCTTC  
 GGGCGATTCAACGACTCCCAACAAGAAGCCATCCGCGAGTCCCGCGTACTTCCCACCAAA  
 TTCTTCGAGAATTAGTTGCCGAATCCACCCAGTGCACCACCATGATTTCCGCCTCTGCA  
 GTTGGATTCTATGGTCACGACCGCGCGCAGAGATCCTGACCGAAGAATCCGAATCCGGC  
 GATGATTTCTCGCCGAGGTCTGTAGGGATTGGGAACACGCCACTGCTCCTGCCTCAGAT  
 GCAGGAAAGCGCGTAGCCTTCATTTCGACCGCGGTGGCCCTCAGTGGACGCGGTGGCATG

CTTCCCCTGCTGAAAACCTGTTCTCCACCGGACTAGGCGGAAAATTTCGGCGATGGCACC  
 TCCTGGTTTCAGCTGGATCGCCATCGATGACCTCACCGACATCTACTACCGCGCCATCGTG  
 GACGCCCAGATCTCCGGCCCCATCAACGCGGTAGCCCCCAATCCAGTCTCCAATGCGGAC  
 ATGACCAAGATTCTGGCCACCAGCATGCACCGTCCCGCATTCATCCAAATTCCTTCCCTC  
 GGCCCCAAAATTCTGCTCGGAAGCCAAGGCGCTGAAGAGCTAGCCCTGGCGTCCCAACGC  
 ACCGCCCCAGCAGCACTGGAAAACCTCAGCCACACCTTCCGCTACACCGACATCGGGGCC  
 GCCATCGCACACGAACCTTGGCTACGAACAACCTCGCAGATTTTCGCCCCAACAGCAAGAAATC  
 GAAGCCGAACGCAACAGGAACGAGCCGAACCTCAAAGCCGCCAAGAAGATCGCCAAGAAA  
 GCCCCAGTCTTAGAGGAATCCCCCACCACCTGGAAGATCCCGAAGAAGTAGAGCAAAGT  
 ATCCTTTTCATCAATCCTCAATTTCCGCCGTAAGCGCAACGAC

>RXA00143-downstream  
 TAAAACCACCATCTGTAGTGTGG

>RXA00152-upstream  
 GTCATTGATATCCAAGGCACGACCGCGATTGTATGGAAAGAAGCCTAAATTTTAAACAAT  
 CAAATAGTACTGGCCATTCCCAACTAAAACCTGGAGTAACG

>RXA00152  
 ATGACAGGACTAATCCTCGCCATAGTTTTCTGGTCTTTGTGCGCCGTCGTGGTGATCAAG  
 TCCATAGCCCTGATTCCCCAGGGTGAAGCCGCCGTCATTGAACGCCTTGGTAGCTACACC  
 CGCACCGTTTTAGGTGGCCTGACCCTGCTGGTTCATTTCGTGGACCGAGTACGCGCAAGG  
 ATCGACACCCGTGAGCGCGTGGTCTCATTTCCACCGCAGGCTGTTATTACCCAAGACAAC  
 CTGACCGTGGCCATCGATATCGTGGTGACCTTCCAAATCAACGAACCAGAGCGCGCCATC  
 TACGGCGTGGACAACCTACATCGTCCGTGTGGAGCAGATTTCTGTAGCAACACTTCGAGAC  
 GTTGTCCGTGGCATGACCCTGGAAGAAACCCTCACTTCACGTGACGTGATCAACCGCCGC  
 CTCCTGGCGAGCTCGATGCAGCAACCACCAATGGGGCCTGCGCATCAGCCGTGTGGAA  
 CTAAAGGCAATTGATCCGCCACCATCCATCCAGCAATCGATGGAAAAGCAGATGAAGGCA  
 GACCGTGAAAAGCGCGCCACCATTTTGACCGCAGAAGGTGACGCGGAAGCCGACATCAAA  
 ACTGCCGAAGGTGAAAAGCAAGCCAAGATCCTCCAAGCTGAGGGTGAAAAGCACGCATCC  
 ATCCTGAACGCAGAAGCAGAACGCCAAGCGATGATCCTGCGCGCCGAAGGTGAACGCGCA  
 GCACGTACCTCCAGGCGCAGGGTGAAGCCCGAGCAATCCAAAAGGTCAACGCAGCAATC  
 AAGTCTGCCAAGTTGACCCCAGAGGTTCTTGCTTATCAATACCTCGAAAAGCTTCCTAAG  
 ATCGCAGAGGGCAACGCCTCCAAGATGTGGGTGATCCCAAGCCAGTTCTCCGATTCTCTG  
 GAAGGTTTTGCGAAGCAGTTTCGGCGCAAAGGATGCAGAAGGTGTCTTCCGCTACGAACCA  
 AACACCGTGGATGAAGAAACCCGCGACATCGCAAACGCCGACAACGTGGAAGACTGGTTC  
 TCCACCGAATCAGACCCTGAAATCGCAGCAGCAGTCGCCGACGAAACGCCGTGGCCAAC  
 AAGCCAGTCGATCCAGAACCCGGTGAGATCCTTTCCAAGAAGACCGCACGACGCTTGAA  
 CCTGAAGCAGTATTGGAGGCTTTGCAAAACGGAACCACTACACAACCTGAGGTTGAGGCA  
 GCACCTCCTACCGCAAACTTCGCCCAAGAATTCCCTGCACCACAGGCAAACCCTGAAGAT  
 TACTCCGACCAACACCGAGAGAATCCTTACGGAAAC

>RXA00152-downstream  
 TAATCAGGCATAAGAAAAGGCGG

>RXA00177  
 CTGCCTTATGTTCTTGCTTCAACGCGCCATATGCGCCACAGGCAGAACAACGCGCAGCG  
 GCAGCTTTCGGTTCTGCGACAGCACTTGAAGGATTGCAACAGCTGCGTGCCCAAGTGGGA  
 GCACCACAGCGACTATCCGATTACGGATTACCGCAGCAGGAATCCCAGAGGCAGTGGAA  
 ATCATCTTGGAGAAAGTACCGGCGAATAATCCACGGACGGTCACAGAAGAAAACCTCACT  
 GCGCTGCTTACCACAGCGCTCAACGGCGACGATCCAGCAACTTTGAAT

>RXA00177-downstream  
 TAAGGAGACCAACATGACTATTT

>RXA00178-upstream  
 GCGAATAATCCACGGACGGTCACAGAAGAAAACCTCACTGCGCTGCTTACCACAGCGCTC  
 AACGGCGACGATCCAGCAACTTTGAATTAAGGAGACCAAC

>RXA00178

ATGACTATTTTCAGCACAAACAGCAAGCAGTGGGAAGAAGACCTTGTAGAGCGCGTACTCGCA  
TCTTTTGTATTCGTGTGAAAACCTTCGCCTCAAACCTAGTGATGAAATCCCTGACTGTGCAT  
CTCCATGATTTTCATCCGCGATGTTTCGACTCACTGAAGAAGAGTGGAACTACGCCATTGAT  
TTCCTCACCAAGGTTGGGCATATCACCGACGATAAGCGCCAAGAATTCGTGTTGCTCTCT  
GACACCTTGGGTGCATCCATGCAGACCATCGCTGTTAATAACGAAGCATATGAAGACGCT  
ACCGAAGCAACAGTCTTTGGCCCTTCTTTGTGATGATGCGCCACTGGTCCAAAACGGA  
GATGACATTGCCTTTGGCGCAGTCGGCCAGCCGGCATGGGTGGAGGGAACGGTCAAAGAC  
ACTGAAGGAAACCCATTCCCAATGCACGCATTGAAGTATGGGAATGCGATGAAGATGGA  
CTTTATGATGTGCAATACGCCGATGAGCGCAGTGTGGACGCGCACACCTGTATTTCAGAT  
GAAAACGGCGAATACCACTTCTGGGGACTAACTCCCGTGCCATATCCCATCCCACACGAT  
GGTCCAGTAGGACAAATGCTCCAAGCAGTTGGTCGTTCCCCCGTTGTTGCGCGCACCTA  
CACTTCATGGTGACTGCGCCAGAGAAGCGAACCTTGGTAACCCATATCTTCGTTGAGGGC  
GATCCGCAGCTAGAGATCGGCGATTCCGTGTTTGGCGTGAAGGACTCACTGATTAAGAAA  
TTCGTTGAGCAACCTGCAGGAACCGCAACTCCAGATGGTCGCGATGTGGGTGATCAAAC  
TGGGCACGCACACGTTTTGATATTGTGCTCGCCCCGGCAATGTC

>RXA00178-downstream

TAAGTAGAAGCAGCAAAAAACCA

>RXA00226-upstream

CCGCCTGCGGTGTACAGCGAGCGCGCCCGGCGTCTGAAAACCTGCACCTGGTGAGAACGTG  
ATTGTTTCATGATGTACCTGTTCCATCGGTACGGAGGGGC

>RXA00226

ATGAACCTTATCGATGCCGGCCTTCGCTACCTGGGTTCTGATCCTAGATTTCTCACGCACC  
CTCATGGCAGCCCAACAATCTCCAGGGCAAAAACGCCCTGATTTTCCGCGCCGACGCGCTC  
CAGCCCGCAAGCAGGGGAGCCGACGTCATCATCGCGGACCCTGCCAGACGCGCCGGGGGC  
AAGCGCATTACAAATCCGGCACAGCTCCTGCCACCTCTGCCTTCGCTTCTCGACGCCTGG  
ATCAACCAACCACTCGCCGTAAATGTGCCCCCGGCCCTTGATTTTTCGGAATGGCCAGGT  
CTCGTCAGTATTGCCAGCGTTGATGGAGGCGTGAAAGAAGCATGCCTCTACACTACGGAT  
CTGGCAGATGGGGAAACTCGCGAAGCTATCGTGATCAAAGATGGGCTCATTGACCGCATC  
ACCAACTTTGAAGACGATGCCACGGGACAAGACCTTGGCGCTGCACCTGGTGAGTTCATC  
ATCGACCCAGACGGTGCCATCGTGCGCGCCGGTTGGTTCGCCACTATGCAGTGCGTGAG  
CAGCTGTGGATGTTGGATGAGCGGATCGCATACCTTACGGGCAATCGGATTCCAGAGGGT  
ACCAGCGGTTTTAGGTTTTATTGAAGAGGTTCCGCTGAAGAAGCTGAAATCGGCGATGGCA  
GCACATGATGCGGGGGCGGTTGAAATTTTAGTGCGTGGTGTTGATGTTGATCCTGATCAG  
TTGCGGAAAAGATTGCAGCTGAAGGGTACCAAGGCGATGTCTGTGGTGATCACTCGAATT  
GGCAGCCGAGGGGTTGCATTGATTTGTGGTCTCGCGAGCGCGCC

>RXA00226-downstream

TAAAGCCGATGCAAAATAAAATTG

>RXA00231

GATCGCCTTCGTAAAGTCTCCTTCACCGGCTCCACCCAGTTGGCCAGCAGCTGCTCAAA  
AAGGCTGCCGATAAAGTTCTGCGCACCTCCATGGAACCTGGTGGAACGCACCTTTTCATT  
GTCTTCGAGGACGCCGACCTAGATCTCGCGATCGAAGGTGCCATGGGTGCCAAAATGCGC  
AACATCGGCGAAGCTTGCACCGCAGCCAACCGTTTTCTTAGTCCACGAATCCGTCGCCGAT  
GAATTCCGCCGCTCGCTTCGCTGCCCGCCTTGAAGAGCAAGTCTAGGCAACGGCCTCGAC  
GAAGGCGTCACCGTGGGCCCCCTGGTTGAGGAAAAAGCACGAGACAGCGTTGCATCGCTT  
GTCGACCGCCGCTCGCCGAAGGTGCCACCGTCTCACCAGCGGCAAGGCCGGGCACAGGT  
GCAGGCTACTTCTACGAACCAACGGTGCTCACGGGAGTTTCAACAGATGCGGCTATCCTG  
AACGAAGAGATCTTCGGTCCCGTCGCACCGATCGTCACCTTCCAAACCGAGGAAGAAGCC  
CTGCGTCTAGCCAACTCCACCGAATACGGACTGGCCTCCTATGTGTTCAACCAGGACACC  
TCACGTATTTTCCGCGTCTCCGATGGTCTCGAGTTCGGCCTAGTGGGCGTCAATTCCGGT  
GTCATCTCTAACGCTGCTGCACCTTTTGGTGGCGTAAACAATCCGGAATGGGCCGCGAA  
GGTGGTCTCGAAGGAATCGAGGAGTACACCTCCGTGCAGTACATCGGTATCCGGGATCCT  
TACGCCGGC

>RXA00231-downstream  
TAGCATCTGCCCCTTTACAAATC

>RXA00249  
GGTGT'TTTTACCTTCCAAGGTGTAGT'TTTGCTTGTGTCGACGCCCCGCCACGGCGTCGTCGAG  
CAGACCCGCGCCACCTGTCCGTATCGGCTCTGCTGGGCGTACGCACGGTGATCCTCGCA  
GTCAACAAAATTGACCTTGTGTGATTACAGCGAAGAAGTCTTCCGCAACATTGAAAAGGAA  
TTCGTTGGCCTGGCATCTGCACCTTGATGTACAGACACCCACGTTGTTCCAATCTCTGCG  
CTCAAGGGCGACAACGTTGCAGAACCTTCCACCCACATGGATTGGTACACCGGACCAACC  
GTGCTGGAAATCCTGGAAAACGTAGAAGT'TTCCACGCGCGTGCACACGACCTGGGCTTC  
CGT'TCCCAATCCAGTACGTATCCGCGAGCACGCCACCGACTACCGTGGCTACGCCGGC  
ACCATCAACGCTGGT'TCCGTCTCCGTGGGCGATACCGTGTACCTACCTGAAGGCCGCACC  
ACCCAGGTACCCACATCGATTCCGCTGACGGATCCCTCCAGACCGCATCAGTTGGAGAA  
GCCGTTGTCTGCGCCTAGCCCAGGAAATCGACCTCATCCGCGGCGAACTCATCGCTGGC  
GAAGACCGCCAGAATCCGTTCCGTCTTCAACGCCACTGTTGTTGGCTTGGCCGATCGC  
ACCATCAAACAGGTGCAGCAGTCAAGGTTTCGCTACGGCACCGAGCTGGTCCGCGGACGC  
GTCGCAGCCATCGAACGAGTCTCGACATCGACGGCGTCAACGACAACGAAGCACCAGAA  
ACCTACGGCCTCAACGACATCGCACACGTGCGCATCGACGTTGCAGGCGAACTCGAAGTT  
GAAGATTACGCTGCCCCGGCGGCCATCGGATCCTTCTCCTCATCGACCAATCCTCCGGC  
GATACCCTCGCAGCTGGCTTGGTTGGCCACCGCCTACGCAATAACTGGTCGATC

>RXA00249-downstream  
TAGACAGTGTCTTAGGCAAGAC

>RXA00277-upstream  
ATGTGGTGGACAATGTTTCGACGATTGGTTCCGACCTTATCTCTGGTCCTACGGTCCACCA  
CAGCTGCAGTACATGCCAGAGGAAGAAGGGACAGAAAACG

>RXA00277  
ATGAAGGATAATGAAGATTTTCGATCCAGATTCACCAGCAACCGAAGCTGTTGCCTTCAAC  
CCTTTCGACGATGACGATGAGGATGATTCCCCCGCTACCTCAGCCGTTGCCTTTAACCCT  
TTTGAAGATGACGATGACGACGATGAGTTCCAAGGCGAAGGCCTAGAATTCTGTGCGC  
GACCTCGACAATCTGCGAGCCACCCAAGGTCAAATGGTGGTGGAACAACCAGCAGTTGAA  
GACAGCCTCGGGTCAGCATCTGCGCATACGGAGACAACCTGCGGCCTCACTGCGTCCCCGC  
CCAGAGGTGGATCCAAGTGAGAGGAGTCGTGACACAAGCAATTTTCGCTGTTCCGCGAACGG  
CGCCGCGTAAGGCGCCAATCCCGCCAGTTGCTGATGGCATGGTGGAAATTGCCGTTTCATC  
ACCCCCAAACCGGAAGATGAGCTGCTCATCGACCCGAAAAGAAGCGCAAACCTGGTGTG  
GCAGCGCCGCAACTTGTGCGGGCGATATCGTCGCAGAGCAATATGAAGTCTCGGCGTC  
ATCGCGCACGGCGGCATGGGTTGGATTTACCTCGCCAACGACCGCAATGTGTCCGGCCGC  
ATCGTGGTGTCAAAGGCATGATGGCGCAATCTTCCGTTCAAGACCAAGGCACCGCTGAA  
GCCGAACGCGAATTCTCGCCGACATCACCCACCCGGCATCGTGAAGGCCTACAATTC  
ATCGACGACCCCCGCGTCCCCGGCGGATTTCATCGTCATGGAATACGTCAACGGCCCCCTCC  
CTGAAAGACCGCTGCAAAGCCCCAACCCGACGGCGTGCTCCGCGTCGACCTCGCCATCGGC  
TACATCCTCGAACTCCTCCCCGCCATGGACTACCTGCACCAACGCGGCGTAGTGTACAAC  
GACCTCAAACCCGAAAACGTATCGCCACCGAAGACCAAGTTAAACTCATCGACCTCGGC  
GCGGTTACCGGCATCGGCGCATTCGGCTACATTTACGGCACCAAGGATTCCAAGCACCC  
GAAGTAGCCACCCATGGCCCCCTCAATCTCCTCCGATATTTTACCATCGGACGCACCCCTC  
GCAGCACTCACCATGCCCCCTCCCCGTTGAAGACGGTGTCTCGCACCGGGCATCCCCTCG  
CCCAAAAATTACCTCTTCTGCGCAGGCATTTGTGTTCTACCGCCTCCTGCAACGCGCC  
ACCGCCGACGACCCCCAACACCGATTCCGCAACGTCAGCGAACTACGCACCCAACCTCTAC  
GGCGTACTGCGTGAAATTTTGGCAGTCCGCGACGGCAAACAATACCGCCACAGCACTCA  
CTATTCTCCCCACAGCAAGCACCTTTGGCACCAACACCTCGTGTTCGCGACCGACCGC  
ATCATCGACGGCATCGAACGACAAGCACGCATCACAGCACCAAGAAATTGTCTCCGCGCTG  
CCTGTCCCACTCATCGACCGCACCGACCCCGGCGCCCGTATGCTCTCCGGATCCTCCTAT  
GCAGAACCCTCCGAAACCCTGGAAACTCTGCGCAACTCCATGGAAGACGAGCAATACCGC  
CAATCAATCGAGATCCCCCTCGGT

>RXA00299-upstream

GGGTGCCGGCGGCGGTC

>RXA00299

ATGCTGCCCCAACCCTCCCATATGTCATCGCTGAGCAGTTCGGCACCTTGGCGGAGTTG  
TACCCAGACCGCATCGACCTCGGCATGGGCCGTGCCCTGGCACGGACATGAATACCTTG  
CGCGCTTTACGACGCGACCTCAGTCCGCCGAGAACTTCCCGTCCGACGTTGTCGAGCTG  
AACTCTTACCTACCGGCCGTTCCCGTCTCCAGGGGTTAACGCAATTCCAGGCAAGGGC  
ACCAACGTACCGCTGTACATCTTGGGTTTATCCCTCTTTGGTGCACAATTGGCAGCACAG  
TTGGGTATGCCTTATTCCTTCGCATCCCACTTCGCACCAACTCACCTTGAGCACGCGGTG  
CAAACAAACGGGATAACTACAGCCTTCAGAGCAGCATCCTGAGCCTTATGTCATTGCG  
GCCGTCAATGTACCGCATCTGATTCCACTGAACAAGCCACGATGATTTCTACAAGGTA  
GCGCGTGCACGCGTGAAGAACATGGCATTGCCTGGCCGACAAGTTACTGATGAGCAACTT  
GATGAACCTCATGGATTACAGCTGCTCGCCAAATTGTCGACATGCTTCACTACACCGCT  
ATAGGCACTGGATCCGAAGTTAAAGAATACCTAGACGGTTTTGTAAAGACGGCACAGGCT  
GATGAACCTGATGATCTCCCTGCAATCCCCCAACACTGAAGCAACCACGCGCAATATGGAA  
ATTCTTGCGGATGCGTGGATTAAT

>RXA00299-downstream

TAGTACCGATGGGCCGGTAGACA

>RXA00332-upstream

AATGAACCTCTGGAACCGCCATGCAGCAAAACCTCTCCAATTGGTAATCTTTGACTCCCAG  
GTTACGCCAGCCCTGCGACACCACCATCTAGGGTTAGAGT

>RXA00332

ATGGCCTTCAACAAAGCGTACGATGCACTTCGCGCCCCCTCAAATCACCTCGGACTCATG  
ACACCAACCGCCCTGAACCTAGGGCGCAGTGAAATGGTTCCAACCGAAAATAGCATCGAA  
CTAGCCATACAAGCAGAAGCTCAAGGATTCAGAGGCATGTGGGTTTCGAGACGTTCCACTG  
GCAGTTCTCAAGGAATCACTGTTACCGATAAACAGGCTACGTATTTAGATGATCCATTC  
TTAATGCTCGGTGCGATGGCCTCTGTGACCTCTACAATCGCGCTGGGCACTGCAGCGACC  
GTGCTTCCACTCAGACATCCGCTACATGTGGCGAAATCCGCGCTCACCTTGATCGACTC  
AGCCACGGACGTTTTGTTTTAGGCATCGGCTCTGGCGACAGGCCTGAAGAATTCGAGATT  
TTTGGCAAAAGCTTAGACAATCGACGCGCTGATATTCAGTCTGGGTGGGCAATTTTGCCT  
GCAGCTTTGTGCGCCGATCCTGCGATGCGGGCCGACCTTGAATTTGCGCCAACCACGCCA  
CCTGAAGCTCAGATCCCCATGATCGCTGTAGGTTCTGCCCCGACAAACAGTGCAATGGATC  
GCCGAAACGCCGACGGATGGGCAACCTACTACCGCCCCGCTGAAGCTCAAGTCGGACGC  
CTCGATCTCTGGGACAAAGCCCGTGGTGGCACCCGCCCTTGT

>RXA00332-downstream

TGATTTCTCCATGGGGCTCAAC

>RXA00354

GGCCTCATTTGGCGCAAATGGTGGATATGTGGAAAGCGCACAGGAGTCTGTGTTCCACCGC  
CGTTTGTGCGGTGAGGAGACCCGCCACATTTGGAGTGGCTCTACAACCGTGGTTTGGAG  
TTTTATCTCGAGTCCAACAACGGTTTGTATGCAAGCCGTGGTTTCCGTGAGGCTTCTAAG  
CCAGTGCTGTCTCGCCTTTTCGGAGAAGACCGACGTGACAGTCGATAGCATGTACCCGGAT  
ATGTTCTGGGGCGCGAGCCTTGATCGTGACGATGTGAACAAGATCAGTTACATCTTCAAT  
TCTCAGGAAGATTTGGACGCAGCGCGTGAGGCGTTCCCTAACCTGGAGCACACCACGTGG  
GGTGGTCAGACGGGTGCGTTGTTTCGGCACGATCGGTGTGTCTGTCAACAAGAAGATCGGC  
GTGGATCGCCTGCTGAAGTACCTGAACGCAGATCGCGCAAACACCATTTGCGTTTCGGCGAC  
AGCGATGAGGATCTCTCCCTATTTGAGGCGAGCGCTTACGGCGTCGCGATGGGCGAGGCC  
ACCGAATCGCTCAAGGCTGCTGCTGACCTGGTACGGATGCTGTTGGGCAGGACGGCTTG  
CGCAATGCGTTTTTAAAGCTTGAGCTTATCGACGCC

>RXA00354-downstream

TGACCCCATCAAAGAACTTCCCA

>RXA00372-upstream

GCAGACATTTCCATAAGTCCTGCGAAATGCGCCCATTCATGTAAAGATGTTATTTCTCC  
CCCAAACACTCCTTAAATTTCAAGAAGGGCCTTATTTTC

>RXA00372

ATGTCTTCGAAGCACCCCTTTGAAGCGCACTGCCGTTACTGTTTTTGCCTCGGCGCTTCC  
GCTGCTCTCCTCGTGGCTTGCTCTGAACCTTCTGAGGACGTTTCCACCGCAGAGACCACC  
ACTGCAAGCTCTTCCGCTAACGCATCCGATGCAGCCGGTGAAAAAGTAACCATCACCGTC  
TACACCTCTGAGCCTGAGGAAAAGGTCGATGAGATCAACAAGGCGTTCATGGAAGCCAAC  
CCAGATATTGAGGTTGAGGTGTACCGCGCTGGTACTGGCGATCTGACTGCTCGCATTGAA  
GCTGAAAAGGCATCCGGTTCTATCGAGGCTGATGTGTTGTGGGCTGCGGATGCTGCAACC  
TTTGAAACTTATGCAGCACAGGGCGACCTTGACAGAGCTGGAAGATGTTGAGACTTCCGAC  
ATCATTGAAGAGGCTCTGGATGCTGAGAACCTTTATGTAGGCACCCGCATCATCCCAACC  
GTGATTGCATACAACACTGAAGTTGTTGATCAGGCTGAGCTTCTACGTCTTGGGCTGAT  
CTGACTGATCCTAAGTATGCAGGCCAACTGGTCATGCCGGATCCAGCTGTGTCTGGTGCT  
GCAGCCTTCAATGCTTCTGTGTGGAAGAACGACCCTGCGCTTGGCGAAGCCTGGATCACC  
GCCTTGGGTGAAAACCAACCAATGATCGCTCAGTCCAACGGCCCAACCTCCCAGGAGATC  
GCTGGCGGTGGCCACCCAGTGGGCATCGTGGTGGACTACTTGGTGCGCGACTTGGCTGCT  
GCTGGATCTCCAATCGACACCATCTACGCATCGGAGGGTTCTCCTTACATCACTGAGCCT  
GCAGGTGTGTTTCGCTGATTCTGAAAAGAAGGAAGCAGCCGAGCGCTACATCAACTTCCTG  
CTGTCTGTTGAAGGCCAGGAAATCGCAGTTGAGCAGGCATACCTGCCAGTGCCTGAAGAT  
GTGCGAATCCAGAGGGCACCCCGAGTTGGCTGACATCGAGCTCATGACCCCTGACCTG  
GAGGTTGTAACCGCTGATAAGGCGGCTGCTGTTGAGTTCTTCCAAAACGCAATGAAC

>RXA00372-downstream

TAGTTTTCTTATGCAGTTATCTC

>RXA00470-upstream

TCTATTGTGGAGTGTGAGGCTGATAAGTGAATGGGGGAAAGCCCTGAAAAGGTGGCGTT  
CAGGGTCTTCCCTGATGGTTTGGTGTGCGCAGGGGCATGAC

>RXA00470

ATGATCGAAGATATGAGTAACACACCTGCGCCTTATACCCCGCAGCCTGCGGGGCAAGCG  
GTGCCTTTATATCCACGTTTACCCGGTCAAGAGATGGTCGGGTGTTGCGGGTGTCGCA  
TCGGGGCTGGCAAAGCATCTTAATGTGTGCGGTGTTTTGGGTTTCGTGCGCTGCTGATTTTT  
GCGGCGTTGCTGAGCGGTGCGGGTCTTTTTGCGTATGCCTTGATTTGGATTTTTACGCGC  
ATTGAGAAAAAGGGGAGTGGGGAGGCGTCGACAAGCAAGCGCTGGGTGTCGTGGTGCCCTG  
GTGCTGCTCGCTATCGGTGGTGCTGCGGCGTCGGTGATGCTGAGCACCGGCTTCGCGGTG  
GGCAGTTGGTGCCCATCGGCGTGGTCGGTGTGGGCTGTTGATGGTGTGGCTGGCGTAT  
GACCGCGGGGTGGAATCCGGCCCGAATCTGCTGATTATTGCCACCGGCGGTGTGTTGATG  
CTGGTGGCGATCGTGCTGATCGTGATGAATTGGAACACCCAGGACGGCTTCGTATGGCG  
CTGGTGGCCGTGGTGCTCACGCTGGTGGGTGTGGCTGCGCTGGGCGTTCCGCTGTGGGTG  
CGGATGTGGGATCAGCTGGGCGAGGAGCGCGCGGAAAAAGCCGAGCTGCTGAGCGCGCA  
GATATTGCTTCCCGCTGCATGATTCGGTACTGCAGACCTTGGCGCTGATTCAAAAGCGT  
GCCGACGACCCCGCGAAGTCGCCCGCCTGGCCCGCGGGCAGGAACGCGAGCTGCGTCAA  
TGGCTGTTTGATTCCCAAGATAAAACACCTCAAACAACCGGCACTGTCTTACTGCGTTG  
GAGCGCGCTTCGCGTGAAGTCGAGGATATTTACGCTCTGCGTATCGTGCTGTGACCGTG  
GGAACCGATGAAGCGCTGACTGAGAAAACGCAGGCAGCGGTGATGGCAGTCCGCGAAGCA  
CTCGTGAACGTGGCCAAGCATGCCGGCGTGGAACCGCCGATGTGTACGCCGAAATTATG  
CTCGGCGAACTGAACATTTTCGTCCGCGACCGCGGTGCAGGATTGCACCCGACAACATC  
CCCGACGGGACACCGGGCTCGCCGAATCCGTCCAAGGCCGCTCGAACGAGCCGGCGGA  
AAAGTACGCATCAAATCTGAAATCGGCGAAGGCACCGAAGTGGCAATCACCATGGATGTG

>RXA00470-downstream

TAGTTGGTTCGTACGCGCGTGTCT

>RXA00471-upstream

ACGCATCAAATCTGAAATCGGCGAAGGCACCGAAGTGGCAATCACCATGGATGTGTAGTT  
GGTCGTACGCGCGTGTCTTCGGGGCTGTAACCTGAAAGGC

>RXA00471



ATGGTTGATGTGTTTTTGGTCGATGACCACTCCGTGTTTCGCTCCGGCGTCAAAGCAGAA  
CTAGGCAACGCCGTACAGTAGTCGGCGAAGCAGGGACGGTGGCCGACGCCGTAGCCGGC  
ATCAAGGCAAGCAAACCAGAGGTAGTGCTTCTCGACGTCCACATGCCCCGACGGCGGGCGC  
CTCGCAGTGCTCCAGCAGATCAACGACTCCGATGTGGACACCATTTTCTTGGCACTCAGT  
GTCTCTGATGCTGCGGAAGATGTCATCGCCATCATCCGTGGCGGTGCCAGGGGATACGTG  
ACCAAATCAATCTCCGGTGAAGAACTCATCGAAGCCATCAACCGCGTGAAATCCGGCGAC  
GCATTCTTCTCACCACGCCTGGCAGGCTTTGTCTCGACGCCTTCGCCGCCCCCGATTCC  
GCAGCTGGCGCAGGCATTGTGACGACCCCGAAAAAGACGCCGCCGTAGAATCCGGAAAA  
ATCCTCGACGACCCAGTTGTGACGCCCCCACC CGCCGCGAAGTCTCGAGTCTCCGCTA  
CTAGCCCCGCGGTACACCTACAAAGAAATCGGCAGAAAGAACTGTTCAATTTCCGTCAAAACC  
GTGGAACCCACGCCTCAAACATTCTGCGGAAAAACCAACAATCCAACCGCCACGCGTTG  
ACCCGGTGGGCTCACTCGAGGGATCTTGAC

>RXA00471-downstream  
TAATGGCGGCTAAAAAGAGTGGC

>RXA00499  
GGTAATGATATTTTGGAAAAACCCACAGCAGAAGTAGTGGAGTACTTATCCACCTGCGC  
GCAGATGGCATTGTGCGAGATGCTGAAGCCCTGCGTAAGCATTGTTGGGTGTGAATCAGTGG  
AACCTTTTAGGCCAGTCTTCGGAGGTTTACCACCCCTGCATTACTTGTCCCGGCACGCC  
GATTCCTTGGACAACGTGTTTATTACCGCGGTCTCAGCGCTATTGATCGCCCAGCAGAA  
GACGTGTATGCCAACTGTTACAACCGCATGCGCCGAAACTCTGAGGAATTCTACCGTCGC  
TTCCCGCAATTACGGGAAACTTTCCGAGGGTTGGTTAATCGTGCTCGCGCCGGGGAGATT  
GTGCTTCCACCGCGGAAGTTGTGTGAGAAACAGGCTGCGATCCCTTGGTCACTTGTGTG  
GGTAGCAATGACGGCTGGTTTGTATCTGTACAACCTGCTGGAATTAGATCCCACCTCCAAC  
GCTTTTGTCCATGACCTGGCAGGACTTTTGCTTTCGGCAACCGCAACCAATTTATTAC  
GTGCTCCATGAGTCTCTTACGCCGACGGTGTTGGTGACAAATTGGGCAGCAGAGCGTGTG  
CTTCCAGAGGATTTCCGCGAGGATCCAACACTGCTCACCGGTGAGCACGTGTTCCAGGAG  
TGGACAGACACCGTGCCGTCGCTCAAGCCGTGGAAGGACGTTGCCCTGGCATTGGCTCAG  
CAGGAATGGCCCAAGCTTTATGATGCGAAGGCATTGGAAAACCTCACAGGCCAAGGGCGCT  
GCAGCAGTGTATGCCAATGACGTTTTCGTCCAGTGGATTACTCTCTGGAACCGCACAA  
CACCTGCCCGGTGTGACGCTGTTTATCACCAGCCAGCATGAACACAATGGACTTCGTGCC  
AGCTCAGGCGCAGTACTGAAGCACCTTTTCGATCTGGCCACGGCCGAGAGGTACGC

>RXA00499-downstream  
TGATTCTCGTGTTAGTACTAGC

>RXA00500-upstream  
CACCAGCCAGCATGAACACAATGGACTTCGTGCCAGCTCAGGCGCAGTACTGAAGCACCT  
TTTCGATCTGGCCACGGCCGAGAGGTACGCTGATTCCTC

>RXA00500  
GTGTTAGTACTAGCCCTAGACACCTCAACCCCTGACCTGATCGTCGGCGTCTGACTCC  
GACACCGGAAACACCCGCGCCGAAACCATCATCGAGGACACCCGCGCACACAACGAGCAG  
CTCACGCCCACCGTCCAGAAGACGCTTCTCGACGCCAACTTGAGCTTTTCAGATATCGAC  
GCGATCGTCGTGGGTTGCGGCCCGGGACCGTTCACTGGACTTCGAGTAGGCATGGTGTCC  
GGCGCAGCGTTTCGGTGATGCCCTGGGAATCCCTGTCTATGGAGTCTGCTCACTCGACGCG  
ATCGCTCACAATATTGGTGACGCAACATCCCGCACGCATTAGTTGCCACTGATGCGCGC  
CGCCGTGAAATCTACTGGGCAACCTACCGCTCCGGCGAACGTGATCAGGGACCAGATGTC  
ATCGCACAGCAAACATCCAGATCAGCGGCGCTGTAGACACCATTTTCGATTCTTGAGCAC  
CTGGTGGAAAAACTCCAGAAGAACTCCAGAATGTACCATGCATAGCGGCAACCTGCC  
CCGCAAGCTTGGTGGCAGTGGCTGATTTTCAGTGTGGAACCAACCAATTTGGTTCTCTT  
TACCTGCGCCGCCCAGATGCCAAAGAACC AAAACCTAAATCTGCAGCCATCCCC  
GAGGTGGATCTTTCA

>RXA00500-downstream  
TGAGTGAACAATTCGAGCTACGG

>RXA00501-upstream

TGGAACCACAACCATTTGGTTCTTTACCTGCGCCGCCAGATGCCAAAGAACCAAAAC  
CAAAACCTAAATCTGCAGCCATCCCCGAGGTGGATCTTTC

>RXA00501

ATGAGTGAACAATTCGAGCTACGGGAACTCCGCAGGGAAGACGCGGGGCGCTGCGCCGAC  
CTGGAGCAAATCCTGTTCCCAGGTGATAACCCCTGGCCACGTGATGTCTTTGCCGTGGAG  
TTTTCCACCCCAACCAATTTCTACATCGGCGCTTTCGACGAAGGATACTTGGTGGCGTAC  
GCAGGTCTTGCCATGATGGGACCTGCGGATGATCCAGAGTTTGAATCCACACCATTTGGT  
GTCGATCCGGAATTCCAAAGAAAAGGCTTGGGACGCGTACTCATGGATCAAATGATGCAT  
GCAGCGGACAGCCACGACGGTCCAGTTTTCTTGGAAAGTCCGCACCGACAACGTACCCGCG  
ATTTCCATGTACGAGGCTTTTCGGCTTTAAAACCTTGGCCGTGCGCAAAAACCTACTACCGG  
CCATCCGGAGCTGACGCCTACACCATGCAACGCCACGCTTGAGCGATCGCAAAGATCAA  
CAGACAGACACAGAGGGGACACCCAGC

>RXA00501-downstream

TAAACCATGATCGTTTTTGGGAAT

>RXA00502-upstream

CTACCGGCCATCCGGAGCTGACGCCTACACCATGCAACGCCCACGCTTGAGCGATCGCAA  
AGATCAACAGACAGACACAGAGGGGACACCCAGCTAAACC

>RXA00502

ATGATCGTTTTTGGGAATTGAAAGCTCCTGCGATGAAACAGGCGTAGGCGTAGTCAAACCTT  
GACGGCGAAGGAAACCTAGAGATCCTCGCCGACTCAGTGGCCTCCTCCATGCAAGAACAT  
GCCCGCTTTGGTGGCGTTCGTGCCAGAAATCGCCTCCCGGGCGCACCTGGAATCTATGGTC  
CCCGTGATGCGTGAAGCGTTGAGGCAGGCGGCGTCGACAGGCCAGATGCTGTGGCTGCA  
ACCGTGGGCCCCTGGTTTGGCGGGCGCGCTGCTCGTTGGAGCCAGCGCTGCGAAGGCGTAT  
GCCGCTGCGTGGGGAGTTCCGTTTTACGCGGTCAACCACCTGGGCGGACACGTGCGCGTG  
GCCAATCTGGAAGGTGAACTCTTCCACACGCGGTGGCTTTGCTGGTTTCCGGCGGACAC  
ACTCAATTGTTGGAAGTTCGACGCGGTGGGATTACCCATGAAGGAATTGGGATCCACCCTC  
GACGATGCCGCTGGCGAAGCCTATGACAAAGTCTCAAGGCTGTTGGGATTGGGCTACCCA  
GGCGGCCCCATCATTGATAAATTGGCGCGCCGGGTAATCCAGAGGCCATTGCTTTCCCC  
CGCGGATTGATGAAAAAGTCCGATTCTCGGCATGATTTACGCTTTTCCGGTTTGAAAACC  
TCCGTTGGCCGCTACGTGGAAGCTGCGGAAAGAAACGGTGAAGTTATTTCCGTGGAGGAC  
GTCTGCGCATCATTCCAAGAAGCGGTGTGTGATGTGTTGACGTTTAAGGCCGTGCGTGCG  
TGCCGCGATGTGCGTGCGAAGGTGCTGCTGTTGGGTGGAGGAGTGGCTGCCAACTCTCGT  
CTGCGGGAGCTTGCTCAAGAACGTTGCGATAAAGCCGACATCGAACTCCGGGTTCTCGT  
TTCAATTTGTGACCGGATAATGGTGTGATGATTGCAGCGTTGGCGGCTCAAAGAATCCAC  
GAAGGTGCCCAAGAATCACCAATTTCCGGTCCGAACTGATCCTTCTTTGTCCGTTGAGACC  
CCACAGGTGTTT

>RXA00502-downstream

TAAACATTTAGTATTAGTTCCAT

>RXA00566-upstream

CTTGTTGACCACGTGATTACCTTGGCTGAAGGCCAATCAGCAACTAGGCGCACGGAAAA  
CTTTAAAGGAGAGAATAAGATTATGAGCAGCGGATTCCAA

>RXA00566

ATGCCAACGTCCCGTTACGTGCTGCCTTCCTTCATTGAGCAGTCCGCATACGGCACCAAA  
GAGACCAACCTTACGCAAACTCTTTGAAGAGCGCATCATCTTCTGGGCACCCAGGTC  
GACGACACCTCTGCAAAACGACATCATGGCGCAGCTCCTTGTCCTCGAAGGCATGGACCA  
GACCGCGATATCACCTGTACATCAACTACCTGGTGGATCCTTACCGCGTTGATGGCA  
ATTTACGACACCATGCAGTACGTCCGCCCAGACGTTTACGACCGTCTGCCTTGGTCAGGCA  
GCATCCGCAGCCGAGTTCTTCTTGCAGCCGGTGCACAGGTAAGCGCGCTGTTCTTCTT  
AACTCCCGCGTGCTGATCCACCAGCCAGCAACCCAGGGCACCCAGGGTCAGGTTTCTGAC  
CTCGAGATCCAGGCAGCTGAAATCGAGCGCATGCGTCGTTTGATGGAAACACCTTGGCT  
GAGCACACCGGCAAGACCGCGGAGCAGATCCGCATCGATACCGACCGTGACAAGATCCTC  
ACCGCTGAGGAAGCACTCGAGTATGGCATCGTTGACCAGGTCTTCGATTACCGCAAGCTC

AAGCGC

>RXA00566-downstream  
TAGAGTTTTTTTAAAGATTCGGGT

>RXA00567-upstream  
CGAACAGAGGCGGTTTTTCATGGAAATACCGCCGGGTAGTCTGGTGACATTGAACCAAATGA  
ACGTACCCAAGATTTAAGAATGTAGGAGTTGACTGTTTTTC

>RXA00567  
ATGAGCGATATTTCGTATGGCAGCCCAGGGTGGGCCTGGTTTTTCGGAAATGACGTCTTTGAT  
CGCCTCATGAGTGAGCGCATCATTTTTCTGGGAAGCCAGGTAGACGATGAGATTGCAAAC  
AAGCTATGCGCTCAGATCCTGCTGCTGTCCGCTGAGGATCCAACCAGGGACATCTCCCTG  
TACATTAACCTCCCCAGGTGGCTCCGTCACCGCAGGCATGGCAATTTATGACACCATGAAA  
TACTCCCCATGCGACATCGCAACCTACGGCATGGGCCTGGCAGCATCCATGGGCCAGTTC  
CTGCTTTCCGGTGGCACTAAGGGCAAGCGTTTCGCATTGCCACACGCACGTATCATGATG  
CACCAGCCTTCCGCTGGTGTGGTGGTACCGCAGCTGATATCGCTATCCAGGCTGAGCAG  
TTTCGACGCCACCAAGCGTGAAATGGCCAGCTGATCGCTGAGCACACCGGCCAGACCTTT  
GAGCAGATCTCCAAGGATTCCGATCGTGACCGCTGGTTTCACTGCACAGGAAGCTAAGGAT  
TACGGACTTGTTGACCACGTGATTACCTTGGCTGAAGGCCCAATCAGCAAC

>RXA00567-downstream  
TAGGCGCACGGAAAACCTTTAAAG

>RXA00569-upstream  
CTGCCGGCTGGGTAAGAAAAGGTCGTGGCGGCGTTTTATGAAGTCCCCACTGAGCGGATCA  
TCCCCGCTACTAACCATCATTTCTGCCAGTGAGAATCACTA

>RXA00569  
ATGAGATTAAAGAAGCAGCTTCTTGGCAGCCTGTTAGTTGTTCATCGTGTTTTGTCCATC  
GCCGTAGCAACCACCAAAACAACAAAAGGCTTCGTACAGGTCAGCCCACCGGTGCGCTT  
AACCTCTCCGACATCCTCGACTCCGAAGAACTTGGCGAGTATCACCTCATGTCAGCCGCC  
ATCATCACTGGTAACACTGTAGATTTTACGCGGGCTCGGCGCAGGTCCAGACGACCCTTTT  
GAAATCGCATCGATTACGAAGATCTTCACCGGTGAGCTGCTTCGACTTCAGATTGAGCGA  
GGAGAGATCACAGAATCCACGGCCGTCGGAGACGTTCTTGGAGAACGTGTAGCCGACTCC  
CTCATCCGGGACATAACCGTGGAAGAACTAGCCAATCACACCAGCGGACTACCCCGTCTA  
GGCAATGTAGGACTTAGACCTTTTATGGCTACGTTCTTTGACAAGAATCCTTACAAAGAC  
CTCTCTGCAGATCGAGTCATCTCTATCAGCACACGTCCAAATTGAATTCGCGCGGAGAA  
TTTCACTACTCAAATCTTGGTTTTGCTCTGCTTGGCCAAGTCCTTGCCCGCAATGCCGGT  
TTAACGTTTGACCAGCTCTTAGACCGTGATTTACTGGCACCCTCAACCTCAATAACACC  
AAGCTCATGACCCCAAGATCCCTCGCTCAAGATGCACCTCAAGGGTCTCAACACCTGGC  
AAACAAGTCGAAGCGTGGGAGATGGATGGCTTTCTCCCCGAGCTGGCCTGCGTTCCACC  
GCGCGGACATGGCAGTTTTCTGTGCTAGTACTTATTCACAAAAGGCCCGCCCTTTTACC  
TGGCAATCCCTTGAATCGGCCCTGAAATCGTCTGGCATAACGGAGAGTCCTTTGGATAT  
AGTTCCGTAATCTTTAACACCGCTACAATACTGCCATCTTCGTTGCTGCCGACGTT  
GCCACATCTGTCTTCCCAATTGGTCACGAGCTTTTAATGGCAAACCTCACTAGGCAGGAA  
TCAAAA

>RXA00569-downstream  
TGATCGATTCCCCCGCCTCTATC

>RXA00594-upstream  
CCGACTGTGACGAGTAACGCACAGTCGAATAAATAAAGATTGGCTGACATTGTTGGAGTC  
TTGGGTTACGATTCCCGGGGTTATCGCTAGGCTGTTGGA

>RXA00594  
GTGTCCACCACGAATTCTCTGACAAAGCTCGTTGCATCTACAGTCGCCGCTGGCGTCCTT  
GGTGGCTCGCACTTGTGCCTTTTCGCTAGTCTTTCTGGCGTTGCGGTTGCGCGTACCAAT

GACACGATGCAGACCAACCTTTTCAGATCTGACGGATGGTTCGCGGGCCGGGCGTCACGACG  
 ATTACTGATTCCACTGACCAGCCGATTGCTTATATTTATGCGCAGCGCGGTTTGAGGTT  
 GGGGGTGATCAGATTTCTACGTCGATGAAGGATGCGATCGTTTCGATTGAGGATCGCAGG  
 TTCTATGAGCATGATGGTGTGGATTTGCAGGGCTTTGGTCGTGCAATCCTGACGAACCTG  
 GCTGCGGGTGGCGTGGAGCAGGGTGCTTCGACGATTAACCAGCAGTATGTGAAGAACTTC  
 TTGCTGTTGGTGGAAAGCTGATGATGAGGCGGAGCAGGCTGCTGCTGTGGAAACCTCCATC  
 CCTCGTAAGCTCCGTGAGATGAAGATGGCGTCTGATTTGGAAAAGACGTTGTGCAAGGAT  
 GAGATTCTGACTCGTTATCTCAACATTGTTTCCTTTTGGTAATGGTGCTTATGGTGTTGAG  
 GCTGCGGCGCGGACGTATTTCCGTACGTCGGCTGCCGAGTTAACCATTCACAGTCTGCG  
 ATGCTCGCGGGCATTGTGCAGTCTTCGTCTTATCTCAATCCATACACCAATCACGATGCT  
 GTGTTTGAGCGTCGTAATACTGTTTGGGCGCTATGGCTGATGCTGGCGCGATTTCCCCA  
 GACGAGGCTTCGGCTTTCCAGCAGGAACCTTTGGGTGTCCTGGAAACCCCGCAAGGCTTA  
 TCCAATGGTTGTATCGGCGCTGGCGATCGTGGTTTCTTCTGCGATTACGCTCTGCAATAT  
 CTTTCTGAGCAGGAATCACCCAAGATATGCTG

>RXA00612

GCCGCTGCAGCCATTTCAGCAGGGCGCTGGCCTAGACACCATGTTGGATGTTTCCTTCTCGA  
 TATGAGGTCAAGGGCATGGGCTCCGGCGGTGCCGGAAGTGTCCCGCAAATACTTACTGC  
 GTGGAAAACGCAGGATCCTACGCGCCTCGCATGACTCTGCAGGACGCTCTCGCGCAGTCC  
 CCAACACTGCATTTCGTTGAAATGATCGAGCAGGTTGGCGTGGACACCGTTGTGGATCTT  
 TCAGTAAAGCTGGGCTGCGAAGCTACACCGATGAAGGTTTCCTTCGACGGCGAAAGCTCA  
 ATCGCGGACTACATGAAGGACAACAACCTCGGTTCTTACACTCTTGGACCTACCGCTGTT  
 AACCTCTTGAATTGTCCAATGTTGCTGCAACCATTCGATCCGGTGGCATGTGGTGCGAA  
 CCAATCCCATCGCCAGCGTCCATGACCGTGAAGGCAACGAAGTCTACATTGACCGCCCT  
 GCATGTGAGCGCGCCATCGATGCCGAAACGGCTTCAGCTTTGGCCGTCGGCATGAGCAAG  
 GATACGGTCAGCGGAAGTGGCGCTCTGCAGCCAGCATGTACGGATGGTCCCTTGCCAACC  
 GCAGCGAAGACCGGTACCACCGAGTCCAACCAAGTCTCAGCATTTATGGGCTTCAACAGC  
 AACTTTGCCGAGCTCCATACATCTACAATGACGGCACCTCCACCACCCACTGTGCAGC  
 GGCCCCGTCCGCCAGTGCAGCAGCGGTAACCTCTTCGGCGGTAACGAACCAGCTCAAACA  
 TGGTTTAACATGGCAAGCAACGTCCCCGCAGCTTCGCAAGGAACACTGCCATCCAGCAGC  
 GATTCAATCCGCCTCGGCACTTCGGGCGAAGTCTCAACCAAGGTTGTCCGCCAAAGCGAA  
 GCCTCCGCTCGACGCACCCCTCGAAGCCAAAGGCTACAAGGTCAACACGCGTTTCAGTCTCC  
 GCGCGCGGCGAGCGCGCGCGGACCCGTAGTCAGCGCAACCCCTCAGGGTGCAGTGCTTATC  
 GACGGTGAACCGTCATTTTGGACATCTCCGACGGCACAAGCCCTGCCCCCGCTGCCACC  
 AACATGATGACAGCGACGATGGAGACACCCCTGCTCCATCAACAAACAACCGCGGAACA  
 ACCATTGAAGACGCCATCAATGACGCCATCAACCAGTTCTTCCGC

>RXA00612-downstream  
 TAGAAATACCTAGTTGCTCAAAC

>RXA00615-upstream  
 AAATTGCCAGGATTGATCATTAATATCGGCTCATTAAGGCTCTTTTAAATGAGAGGGATT  
 CCCATTGAATGATCAGTTGGTGAGTTGGGTGGAAACACTC

>RXA00615  
 ATGACAGCATCGGTGTTTTATCCGGTGCTGTCAGTTGTGGTGCTCATCGACTGCATTTTG  
 CCGCTTATCCCCAGTGAGACTGTTCTTGCTTTGGCAGGGGCGTGGTCAGGAGCTCGGGGA  
 ACTCCAAACTTGTGGTTGGTTATTTTCAGTAGCAACGTTGGCCGCGATCATTGGTGACAAC  
 CTGTGTTATTTCTTTGGCACGCGGTTGATCAATATGGTGAACAGGATTCCGGGAGAAATCG  
 AGGCGCGGAAAAGCGCTGGAGTGGGCGCGGAAGAACCTTAATGAACGGGATGTTTCGACA  
 ATCATTATCGCCCGCTTTATCCGTGGGCTAGGTGGTTTGTCAACATCATTTTGGGATCT  
 GTGGGATATTCCTGGTCGAGGTTTATCGTGTGGGATTCCATTGGAGCGCTAATTTGGGCA  
 ACCCAGGCAACTTTGTTGGGTATGTGGGCGGATGGCTTTTCCAAGAACAACCGTTGATC  
 GGCCTGGTTGCAGGCGCAGCTTTGGGAATCTTCTTCGGGTTCTTTTGCAGTGGCTCAAC  
 AAAATGTGGGAGAGGCGTCGTCTGGCGAAAGTGGCTGCAGAA

>RXA00615-downstream  
 TGAAATCAGGCCAGACAGTGGG

>RXA00621-upstream  
AAATGAATCCGGGTTTTTCAGTTTCGGGGTGCAAATCAGAATGTCGCCAATGGCGAACAC  
ACGAGCGTGCAGAAGATGTGCGTGACTAAGATCGGGGGCT

>RXA00621  
ATGTCTGAACGCCTAAACGCTCCGCAAGCACCAATCCATCCCATCACCCGAACCCACCAC  
GGTATTGATTTTCGTAGACAACCTATGAATGGCTGAGGGATAAAGAATCCCAAGAAACCTTG  
GACTACCTGGAGGCGGAGAATGCGTTCACCAAGCAGGAGACTGAACAGCTAGCCACACTG  
CGGGACAACATCTATGAAGAGATTAAGTCACGCGTTAAAGAAACCGACATGTCCATCCCA  
GTGCGTGCCGGAAGCACTGGTATTACTCTCGCACTGAAGAAGGCAAGAGCTACGGCTAT  
TCCTGCCGATTCCAGTGACTGAAGGGTCGGATGCATGGACCCCTCCTGTTATCCCTGAG  
GGTGAGCCAGCGCAGGGTGAAACCATCATCATGGATGCCAACGAGTTGGCAGAAGGCCAC  
GAATTCTTCTCCATGGGTGCATCATCTGTACCACCTCTGGCCGCTACCTTGCGTATTCC  
ACCGATGTACGGGCGAAGAGCGCTTTACGTTGCGCATCAAGGATCTAGAACTGGCGAG  
CTGCTTCTGATACCTGACTGGCATTCTTCTACGGTGCTACTTGGGTGGGGGAGGAGTAC  
CTCTTTTACCAGCGCGTTGATGATGCGTGCGCTCCAGATACTGTGTGGCGCCACAAGGTG  
GGTACCCCGGTTGAAGAAGACGTGTTGGTGTACCACGAGCCTGATGAACGTTATTCCACC  
TGGGTGGGCACCACTCGTTTCAGAAAAAGTTCATCCTTTTTGGTTGCGCCTCCAAGATCAC  
CTC

>RXA00621-downstream  
TGAAGTACGCGTGCTTCCTTTCG

>RXA00622-upstream  
TTTTACCAGCGCGTTGATGATGCGTGCGCTCCAGATACTGTGTGGCGCCACAAGGTGGGT  
ACCCCGGTTGAAGAAGACGTGTTGGTGTACCACGAGCCTG

>RXA00622  
ATGAACGTTATTCCACCTGGGTGGGCACCACTCGTTTCAGAAAAAGTTCATCCTTTTTGGT  
TGCGCCTCCAAGATCACCTCTGAAGTACGCGTGCTTCCTTTTCGACCAGCCAGAGGGCACC  
CCTGAGGTGCTGATTCCGCGCGCGGAGGGTGTGGAATACGACGTCGATCATGCAGTCGTA  
GACGGCTCCGATATTTGGTTGGTCACACACAACGCCGAGGGCCCGAACTTTTCGGTGGGG  
TGGGCTGGCGTCGACAAGCTCAATTCTTTGGACGCGCTGGCGCCACTCGTCGCGCACAAG  
TAGACGTCGCGATTGAGGGTGTGATACCTACCGCGATTTCATCATCCTGGGCTACAGG  
TCCGGCGCGATCGGCCAGGTGCGGATCATGAAGCTTATCGACGGAACCTTCGGCGATTTTC  
CAACAGCTGGAATTTGACGAGGAAATCTACACCGTCGATCGGGCGGAAACCCAGAATGG  
GACGCCCCCGTCATTTCGCTTTCTTACGGATCATTCACCACCCCGCGCAGCTGTTTAAC  
TACTGGATTGAATCCGGCGAACGCACGCTGCTGAAGCAGCAGGAAGTGCTCGGCGGATAC  
AAGCCGTCAGACTATGTGGCTCCCGATTGTGGGTCACTGCGAAAGATGGCGCGCAGATT  
CCAGTGTCCTTGGTGACCCGACCGACCTGGATGTATCCAAGCCCCAACCCACGTTGCTC  
TACGGCTATGGTTTCTACGAATCATCCATTGATCCAGGCTTCTCTATCGCGCGTTTGTCA  
CTGATGGATCGTGCGATGATTTTTGCGATTGCCACGTTTCGTGGCGGTGGCGAAATGGGT  
CGTGGCTGGTACGACAACGGCAAAACACCACGAAGAAAAACACCTTCACCGACTTCATT  
GATGTTGCCGACGCCCCATCGAGCAGAAGATTTCTGCCCCGAAATGCTGGTTGCAGAA  
GGCGGCTCAGCTGGTGGCATGCTCATGGGCGCCATTGCCAACATGGCCGGTGACCGCTTC  
AAGGCGATCGAAGCCAACGTGCCATTTCGTGATCCGCTGACCTCTATGCTCATGCCGGAA  
CTGCCACTGACGTTTATCGAATGGGATGAGTGGGGCGATCCACTCCACGATAAGGACGTC  
TATGAATACATGGCGTCGTATGCCCCATATGAAAACATCGAGGCAAAGAACTACCCCAAT  
ATCTTGGCCGTAACATCGCTCAACGACACCCGAGTGTTGTACGTCGAACCAGCCAAATGG  
GTAGCGCAGCTTCGGGCGACTGCAACCGGTGGAGAATTCTTCTGAAAACGAAATGGTT  
GCCGGACACGGCGGTGTGTACGAGCGCTACGAAAAGTGGCGTGAGACTGCATTTGAGTAC  
GGCTGGTTGATCAACCAAGCAACCGGTGTGACCGAA

>RXA00622-downstream  
TAAACTTGTTTCGACTAGCGAAC

>RXA00636-upstream  
TCATGGGATTCAGCAAGGCGGCCACCCGAACCGTCTTTGGTGGAGGAGTAGGAGCGATGA

TCGATCTGGCCCGTTTGAACATAAGGAATATTCCTACTCC

>RXA00636

ATGATGATTGATACACCTGCTGTTCTCATTGACCGCGAGCGCTTAAGTGCCAAACATTTCC  
AGGATGGCAGCTCACGCCGGTGCCCATGAGATTGCCCTGCGTCCGCATGTGAAAACGCAC  
AAAATCATTGAAATTGCGCAGATGCAGGTTCGACGCCGGTGCCCCGAGGGATCACCTGCGCA  
ACCATTTGGCGAGGCGGAAATTTTGGCCGGCGCAGGTTTTACGGACATCTTTATTGCATAT  
CCGCTGTATCTAACCGATCATGCAGTGCAACGCCCTGAACGCGATCCCCGGAGAAATTTCC  
ATTGGCGTGGATTTCGGTAGAGATGGCACAGGCGACGGCGGGTTTGGCGGAAGATATCAAG  
GCTCTGATTGAAGTGGATTTCGGGACATCGTAGAAGTGGAGTCACGGCGACTGCTTCAGAA  
TTGAGTCAGATCCGCGAGGCGCTGGGCAGCAGGTATGCAGGAGTGTCTACTTTTCCTGGG  
CATTCTTATGGCCCCGGAAATGGTGAGCAGGCAGCAGCTGATGAGCTTCAGGCTCTAAAC  
AACAGCGTCCAGCGACTTGCTGGCGGCCTGACTTCTGGCGGTTCTCTGCGCTCTGCGCAG  
TTTACAGACGCAATCGATGAGATGCGACCAGGCGTGTATGTGTTTAACGATTCCCAGCAG  
ATCACCTCGGGAGCATGCACTGAGAAGCAGGTGGCAATGACGGTGCTGTCTACTGTGGTC  
AGCCGAAATGTGTGATCGTCGGATCATTTTGGATGCGGGATCCAAATCCTCAGCACT  
GATAAACCCAGCATGGATTGATGGCAATGGTTTTGTTCTGGGGAATCCTGAAGCCCCAATC  
TCTGCTTTGTGCGAGCATCACGCAACCATTTTCTGGCCAGATAAAGTGCTACTTCCAGTA  
ATCGGGGAGCAGCTCAACATCGTGCCCAACCATGCCTGCAACGTGATTAATTTGGTGGAT  
GAGGTCTACGTTTCGGGAAGCCGATGGCACTTTCCGTACCTGGAAGGTAGTTGCCCCGGGC  
AGAAACAAT

>RXA00636-downstream

TAGGGAAACCTCTTGACCTTCAC

>RXA00639-upstream

AGTGTGTTATCGAGTTTCAGCCGATCACAAAGATTTTTCCGCTAGGCAGTGATCCGACTC  
GCACCCCTACTTCACCCCCAAAGTCTCTAGGAGTATGAC

>RXA00639

ATGACTTCAGCTGAACAGATCGTTGATCCAACAGCCACGATTTCGGGCAACAAGGCAACT  
GACAAGTTCAAGGCAAACCGCGTTTCTCCGATACCTCCAAGGAACGCGCAAACGCGATC  
TACGTAGATCTGCTCGCGGCGATCGCCAGGTTGCTCACAAGCACGAAGTCACCTACGAA  
GAGTACGCAGTGCTCAAGCAGTGGATGATCGACGTTGGAGAATACGGCGAGTGGCCACTG  
TGGTTGGACGTTTTTCGTTGAGCATGAGATCGAAGAGATCAACTACAACCGCCACGACTAC  
ACCGGAACCAAGGTTCCATCGAAGGCCCTTATTACGTAGAGAACTCTCCGAAGCTCCCT  
TGGGATGCTGAAATGCCAATGCGTGACAAGGACCGCGCATGCACCCCACTGATCTTCGAG  
GGGCAGGTTACTGACCTCGACGGCAACGGTCTTGATGGAGCAGAAGTTGAGCTCTGGCAC  
GCAGATGAGGACGGATACTACTCCAGTTTCGCGCCTGGAATCCCAGAGTGGAACCTGCGT  
GGCACCATCGTTACCGATGAGGAAGGCCGCTACAAGATCAAGACCCTGCAGCCTGCGCCT  
TACCAGATCCCTCATGATGGCCCAACCGGTTGGTTCATTGAGTCTTACGGTGGGCACCCA

>RXA00640-upstream

TGCGGAATTGCTCGCAAATGTACACACCGCTTCAAAGCAAAAACGAAAACGACATCGCG  
GTGGCAATACCAACTTCTTTTCACTCTCTTGAGGTTTAC

>RXA00640

ATGTCCACACCAGTTTCAAATTTGGCAAGCGTTTCAGAAACTCTGGACCATGCGCTTGAG  
GACCGCCCTGAAGAGGGAATCGTCCGCGTCAACCGCAACATCTTCACTGACCCTGAGATC  
TTCGAGCTGGAGATGCGCCACATCTTCAAGGCATCTGGATGGACATGGCTCACGAGTCC  
CAGATCCCTAACGGTGGAGACTACTTCACCACCTACATTGGCTGCCAGCGGATCATGATC  
ACCCGTTCC

>RXA00640-downstream

NAGGNNGGCACACTNAANGGCCT

>RXA00641-upstream

CCACGGTTGANNANTCNGCAAGGNCGGNNCACTGCTCAAGGTCAAGGATGAAAAAGAAGG

CNCCTACCCAGAGTATTTCCGCACCGANGGNTCCCANGAT

>RXA00641

GTGCGTCGCGTTCTTAAGTTAGAGTCCTACCGTGGCTTCCTCTTCGGCTCCCTCAACGAT  
GATGTCGTTTTCTTTGGAAGAGCACCTCGGCGACACCCGTACCGTCATTGACATGCTGGTT  
GACCAATCCCCAGAAGGCCTCGAAGTACTGCGCGGATCCTCCACCTACACCTACGACGGC  
AACTGGAAGCTCCAGACCGAAAACGGTGCAGACGGCTACCACGTTTCCTCCACCCACTGG  
AACTACGCTGCAACCACCTCCCGCCGTGGCACTGGTGAATCCGCGAACGAAACCAAGGCA  
ATGGACGCTGGTACCTGGGGCAAGCAGGGTGGCGGATACTTCTCCTACCCCTACGGCCAC  
ATGCTGCTGTGGATGTGGTGGGGCAACCCAGAAGACCGCCCACTGTTTCGAGCGCCGCGAC  
GAGTTCAAGAAGGAATTCGGCGAAGAAAAGGGCGAGTTTCATGGTTGGTGCTTCCCGCAAT  
CTGTGCCTCTACCCCAATGTTTACCTGATGGATCAGTTCTCCTCACAGATCCGCCACATC  
CGCCCAATCTCAGTTGATCAGACCGAAGTCACCATCTACTGCATCGCACCTAAGGGCGAG  
TCCGCGGAAGCAGTGCAAACCGCATCCGCCAGTACGAAGACTTCTTCAACGCAACGGGC  
ATGGCAACCCAGATGACCTGGAGGAATTCGCTCCTGCCAGAAGACCTACCAGGCATCT  
GCCTTCCCATGGAATGACATGACCCGCGGTTTGGGCCACCAGGTACAGGGACCAAACGAG  
GTTGCCAAGGGCCTAGGCATGAACGAAGTTCTTCTCCGGAGCACGCACCGAAGATGAA  
GGCCTCTACCCAATCCAGCACGGCTTCTGGCATGAACTCATGCAGGAGGCTGTGAATAAG  
CAGAGCATCAAGGAAAAGGAATTGGCTGACGATACCGCTTCTTCCCTTGCCACCGTAGCT  
GCAGCCAAAATCCGTGAGGAAGCAAAGGCAGCCGCGAAGTCCGACGCTGGAGAGCCTCGC  
CGCCGTCGTCGCACCCGCGGT

>RXA00641-downstream

TAGTCGTCGAAAAGCAAAAAATC

>RXA00642-upstream

AAAGGCAGCCGCGAAGTCCGACGCTGGAGAGCCTCGCCGCCGTCGTCGCACCCGCGGT  
GTCGTCGAAAAGCAAAAAATCTTTTAAGGAGAACACCTAA

>RXA00642

ATGTCTGAAATCACCCGCTCTGAGATCGAAGCTTTCCTCTACTACGAGGCTCGCCTGCTC  
GATGACCGTAAATTTGAAGAATGGCTCGAATGCTACCGCGAGGACGCCGAGTTTTGGATG  
CCAGCCTGGGACGACAACGGTGAAGTGAAGATCCACAGTCTGAAATTTCCCTCATC  
TACTACCCAAACCGTGGTGGACTTGAGGACCGCGTCTTCCGCATCCGCACCGAACGCTCC  
TCTGCAACTTCCCTACCTGAACACGACCGGCCACAGCACCAACGTTGGAAATCCTG  
GAGCGCCGCGACGGCGAAGTAGATATCCGCTTCAACTGGATCACCTTCTACTACCGTTAC  
AACACCACCGACACCTACTTCGGCACCACTTTATCACCTTGATGTCAGTGGTGAAACC  
CCGAAGATCGTCAAGAAGAAGGTCGTTTTGAAGAACGACTACATCCACCACATCGTCGAT  
ATTTACCACGTC

>RXA00642-downstream

TAGGAGGCACTCACATGACTCAC

>RXA00643-upstream

TCAGTGGTGAAACCCCGAAGATCGTCAAGAAGAAGGTCGTTTTGAAGAACGACTACATCC  
ACCACATCGTCGATATTTACCACGCTTAGGAGGCACTCAC

>RXA00643

ATGACTACCAAGTTGCACTTGCCCTTTGAAGACGGCATCACCCGATTTCATCGACTGCGAA  
GATGACCAAATGTTGCAGATGCCGCTACCAGGCACGCATCAACATTCCTTTGACTGC  
CGCGACGGCGCTGCGGAACCTGCAAAGCGTTCTGCGAATCCGGCGACTTTGACGAAGGC  
GACTACATCGACGACGCCCTGTCCGAAGATGAAGCAGCCGACGGCTACTGCCTGCCCTGC  
CAGATGACCCCAAAGACCGACCTCATCTTGACAGATCGCCACCACCTCCGTGCTGGCAAAG  
ACCGGCGCATCCACTTTGATGGCGAGTTGAAGGAGATCAATCACTTCTCTGATTCCACC  
ATCGGCATTGAGATCGAACTGGAAAACCGCCAAGATTTGGCGTTTCTCCTGGTCAATAC  
ATGAACATCCAGGTTCCAGGCAGCGACCAGACTCGTTCCTACTCTTTCTCCTGCGCTCAA  
GATTCGGCAACGTGCAGTTCTTGATCAAGGTAACCCAGGTGGACTCATGACCACCTAT  
CTCACCGATCACGCGAAGGTCGGCGACAAGCTCACCTTGACCGGCCGATGGGTTCTTC  
TTCCTGCGTGAACCTGTCCGCCGATCCTGCTGCTCGCCGGCGGAAGTGGACTTGACCG

ATCTTGGCTATTTTGGAAAAGCTTTCCCGCGATGAGCTTCTCGACGTCCCAATCCGCCTG  
GTTTACGGCGCGAACTTCACCCACGATCTGGTGGAATTGGATCGACTTGATGCCTTCAAG  
GACAAGTTCGACTTCGATTACATCACCGTGCTTTCCGACAAGGACACCGAGCATCCACGC  
AAGGGCTACGTCCCAGCACACCTGACCGGCGAATATGAGCCAGATGAGGACACTGATGTG  
TACCTCTGCGGCCCTCCTCCAATGGTCGAGGCCGTGCGCCAATTCTTGGGCACCTGGAG  
CATCCTCCGCTGGACTTTTATTACGAGAAGTTCACTTCCGCCGCTGCCCTGCTGCTGGT  
AAGCCAGAGATCACCGTGAGACCAGCGAAGTTGCAGAGGATTTCAACCTGGTCGAGGTG  
TCCACTCCAGGCATGTCTTCCGGCGAGGTGCACTCTTCTGCAACCCAGCTGCAGGCCCGC  
ATGGCTCTGGAGCTCGGCGCGCTGGAGCTTGCATCAACAACTCGGCGAGCGCGACATC  
GAGCGATTCCGCAACTTGGCCGACATCGCGAACTCCTTCATCGACGGCGATAAGTTTATC  
GACGCGGTGAAGTTCACCGAGGCCAACGCCGATTTCCACGAGTTCCTCTCCGCCGCGCA  
AACAACGAGGCGCTGCTTGCAGGCTACCAGAACCTCCAGGTTGTTCAAGAAATGAACGCA  
ACCCTTCCAGGCGCCGAGTGGATTGATCCGGCAATTGCCACCGAGCACTTGGCGCTTGTG  
GACGCCGTCTCCAGAAATGATCTCGAGACCGCGAGAACAAATCATTCGTGAACACGCGGAG  
CACGGCATTGACACTATGGTTAAGGCCCTCGAGAAA

>RXA00643-downstream  
TGAGCGCGCCAGTAGGACAAGGC

>RXA00644-upstream  
TTGTGACGCGCTCTCCAGAAATGATCTCGAGACCGCGAGAACAAATCATTCGTGAACACG  
CGGAGCACGGCATTGACACTATGGTTAAGGCCCTCGAGAA

>RXA00644  
ATGAGCGCGCCAGTAGGACAAGGCATCGAAGGTGCCCCACTCACGTCACCCCGGAACGC  
TTCTTTGGCCAGGGTGTTGTGGTTACCGGAGCGGCTCAAGGCATCGGCATGGCAGTGGCA  
CACCGCATCGCATATGAGGATGGCAACCTAGTGTGGTGGACCGTCCCCGCTGGTGCAT  
GAAGTTGCCGAAGAGCTGCGTAAAGCAGGCGCCGGAACGGTGGATTCTTTCATCGCCGAT  
CTGGAAACCTTTGAAGGCGCAACTGATGCTTTGGAATTTGCCGGGCAGAAAGTTGAAGAAC  
CTTGATGTGGTGATCAACAACGTTGGTGGCACCATCTGGGCGAAGCCTTATCAGGAATAC  
TCTGAGGAAGAGATCCGCAAGGAAATCAACCGAAGCCTCTTCCCCACCTTGTGGATGTGC  
CGGGCCGCGTTGCCAATTCTGATCGGAAATGGTGGTGGAAACGATCGTTAATGTGTCTCTC  
ATCGCGACCGGTGGTATCAACCGTGTCTTATGCTGCAGCAAAGGGTGGCGTCAACGGC  
ATTGTTTCTGCCATGGCCCGCGAAGCTGCACCGCATAATGTGCGCGTGGTGGCAACGGCT  
CCCGGTGGCACGCTCGCTCCGGAACGTGCCGTCAAACGAGGCCCTGGGCCAGAGGGCGAA  
TTGGAAGAAAAGTGGTATCAGCAAATCGTTGATCAAACCATGATTCCAGTTTGATGAAG  
CGCTACGGCACCTAGAGGAGCAGGTGCGCCGATCTGTTTCTCGCTTCTGAGGAAGCT  
TCCTACATCACTGGATCAGTCATGCCAGTCGGTGGAGGCGACCAGGGA

>RXA00644-downstream  
TAACCCCTGGTCAATCTTAGGGA

>RXA00650-upstream  
AAGGCTAGACTAAAGTACGATTATCTGCTCATCGATACTCTTGAAGGCGCATTTTCATT  
CGAAACGAAGTGCGCCATTGGGAAGGACCTAGTTCAAACA

>RXA00650  
ATGATTGCGGTGCTGCTTGCTGATGACCACGAAATCGTGAGGCTCGGACTCCGAGCTGTG  
CTGGAAAGCGCCGAGGACATTGAAGTGGTGGGCGAAGTCTCCACCGCCGAAGGTGCGGTG  
CAGGCAGCCCCAAGAGGCGGAATCGACGTATCTTGATGGACCTCCGATTTCGGCCCCGGC  
GTCCAAGGAACCCAGGTTTCCACAGGCGCAGACGCCACCGCAGCCATCAAGCGAAACATC  
GATAACCCGCCAAAAGTCTTGGTCTGACCAACTACGACACCGACACAGACATCCTCGGC  
GCAATCGAAGCCGGCGCACTGGGCTACCTGCTCAAAGACGCCCCACCGAGCGAACTCCTG  
GCAGCAGTACGATCCGCAGCAGAAGGTGACTCCACACTGTCAACCATGGTTGCGAACCGC  
CTGATGACTCGCGTGCGCACCCCCAAAACCTCACTACCCCCACGTGAACTGGAAGTTCTC  
AAGCTGGTTGCCGGTGGATCCTCCAACCGCGACATTGGCCGTATCCTCTTCTCTCAGAA  
GCCACGGTGAAATCCCACCTCGTGCACATCTACGACAAGCTCGGCGTGCGGTACGATACC  
TCCGCTGTGCGAGCCGCACGTGAGCAGGGGCTGCTG



>RXA00650-downstream  
TAGCGGGGGTTGCTGCAAGGCTT

>RXA00658-upstream  
CATTGACACCCACAGGTTTACCAGCATCACGGAAAGTTTGGATGGATTTTACTCCGGCC  
ACAACGTCTGGCTGGAAGCTCAGCCACGTGCTTTCTGGTC

>RXA00658  
GTGCGCCACGACGAGCACTACCCAGCTGCGGCAAACCTCATTGCTTTCGATAAGGGATGG  
TCCACCCTCATCGCCCCCTCAGCTGGAAGATCCAGAGGCGGAGGAGTTCACCGCCGGATTTC  
CTCACCGAATACCAGGACAACTGATCACTGCGGGCATGGAGCACCAGGCGCTCGCGAGC  
GGCTTCCCGGTGGGGCGTTCGCTTCAAGTCCGATATTGCTTTACGACGCTGCGATGCGGTG  
ACCACCCACATCGGCCACGAACACTCCGCCGATGGTCACTGGAGGATCTACGTATTTCGCT  
GGCCAAGCCACCCCAAA

>RXA00659-upstream  
GCTGGATACGAAAAGTGAAGGAAAATAACGCATCATGACTATTAATGTTTTCGAACTACT  
TGTCAAAGTCCACGGGTCTACTGATTGGTGATTCTTG

>RXA00659  
GTGGAAGCATCCGACGGCGGTACTTTTCGATGTGGAAAACCCAGCGACGGGTGAAACAATC  
GCAACGCTCGCGTCTGCTACTTCCGAGGATGCACTGGCTGCTCTTGATGCTGCATGCGCT  
GTTACAGCCGAGTGGGCTAGGATGCCAGCGCGGAGCGTTCTAATATTTACGCCGCGGT  
TTTGAGCTCGTAGCAGAACGTGCAGAAGAGTTTCGCCACCCTCATGACCTTGGAAATGGGC  
AAGCCTTTGGCTGAAGCTCGCGGCGAAGTCACCTACGGCAACGAATTCCTGCGCTGGTTC  
TCTGAGGAAGCAGTTCGTCTGTATGGCCGTTACGGAACACACCAGAAGGCAACTTGCGG  
ATGCTGACCGCCCTCAAGCCAGTTGGCCCGTGCCTCCTGATCACCCCATGGAACCTCCCA  
CTAGCAATGGCTACCCGCAAGGTTCGCACCTGCGATCGCTGCAGGTTGTGTCATGGTGCTC  
AAGCCAGCTCGACTTACCCCGCTGACCTCCAGTATTTTGCTCAGACCATGCTTGATGCC  
GGTCTTCCAGCAGGTGTCCTCAATGTGGTCTCCGGTGCTTCCGCTCTGCGATTTCCAAC  
CCGATTATGGAAGACGATCGC

>RXA00663  
CTTGGTGACAATGACACCCGCATCCTTGCACTGGCCAAGAATCTGCAGGAAGAGGGCCAC  
AATGTGGTTCTGGTGTCGAAGGACCTGCCGATGCGGATTAAGGCGTCGGCAAGCGGAATC  
GCCGCACAGGAATACCGCGCTGCCCTGGCGCGCGACCGTGTTACACCGGCATGACCCAC  
GCCAATATCACCGATGACCAGCTCAGCGAGCTCTACGACACCGGCGAGGTGCGCATTGAG  
GAGCTCGAAAAGCTGCCCCGTCAACCACGGCTTACCCTCAAATCCAACAGCGGTTTCGGCG  
CTTGGTTCGTATGAATTCGACAAGATCATCGAGCTTGTCCCCGGCGACCAAGCAGGATTC  
GGTATCAGCGGGCGTAGCGCTGAGCAGCGGTTGCCATTGATTGTCTTAACGACGACGCC  
GTCGGCATCGGTATCCATCGGCGGCCCGCGGGTACAGGTAAAAGCGCACTCGCACTGTGT  
GCCGGCCTGGAAGCTGTGATGGAGCGTCGCATTACGCGCAAGATTATCGTGTTCGCCCCA  
CTCTTTGCCGTTGGCGGACAGGAACCTGGCTACCTGCCTGGCGACCAAGAAGAAAAAATG  
GGGCCTTGGGCGCAAGCGGTTTTTGACACCCTAAGCTCCATGGTCAGCCAAAACATCATC  
GATGAAGCCCTCTCCCGCGGCCTCATCGAAGTTCTCCCACTTACTCACATCCGCGGACGC  
TCACTCCACGATGCTTTCGTATCGTCGACGAGGCCCAATCCCTAGAACGCAACGTGTTG  
CTCACCATGCTGTCTCGCATCGGCCAGAATCCCGAGTAGTTCTCACCCATGACGTAGCG  
CAGCGCGACAACCTGCGCGTTGGTCGCTACGACGGCATCGTCTCTGTGGTGGAAGCACTC  
AAGGATCACGAACGTGTTGGCCACATCACGTTGCAGCGTTCCGAACGCTCCCGAATCGCT  
GAGTTGGTCACCCAAGTTTTGGATGCGCCGCTCTCTG

>RXA00663-downstream  
TAGTCGCGCAGTCTGTGGCGATT

>RXA00675  
TGCGGCGCAACCTTTGATGGTTGGGTGCGCGATTCCGCGTGAGCTTCGGCATCGGCGAG  
CTGGACGAGGACGTCCAGGGTCTCAACTTGGCTACCGAGTGGGTCTCATGGAAGGCATG

AAGGCCATGGTTCCAGGCAACCGTTTGACCGATGTCTCCACGCTCTCGAGGTCGCAACC  
CGCAAGGCTGAGTCCAAGTTCGGCGTCGCGCTCGGCATCGTCGATGGCTACGGCGGACAC  
GGCATTGGCCGCCACATGCACGAGGAGCCATACTTGGCTAATGAGGGCAAGGCCGGCAAG  
GGCCCTGTGATTCAGGAGGGCTCCGTGCTCGCCATTGAGCCTATGCTCACCCCTCGGCACC  
GAAGATTCCGCAGTGCTGGAAGATGATTGGACTGTCGTGACTCTCGACGGTTCATGGGCA  
TCACACTGGGAGCACACCGTTGACAGCCACCAAGGGCGGCCCGCGCATCCTCACGCCGCGT  
TAT

>RXA00675-downstream  
TAAAATGATGCTTTTCGACGCAT

>RXA00689-upstream  
ACTCCGACCAGTGACTTTAGAGCTAGGCGGAAAATCTTCCGCGATTATCCTTCCTGATGC  
AGACATGTCAGTACTCTCGACGCGGTTGATTTCGATCCTGT

>RXA00689  
ATGCGCAACACTGGACAAACCTGCTACATCAGTACCCGGATTATTGCCCCTAGCTCACGC  
TATGCGGAAGTCGTACAAACAGTGGCAAGCACTATCGCTGCAGGTAGACAAGGTGACCCC  
TATGATGAAGAAACGGTTTTTTGGGCCAGTTGCCAGCGCCTCTCAGTACTCAACCGTCATG  
TCTTACATTGACTCCGCACGAGAGGAAGGTGCACGAGTGGTTGCAGGTGGAACCCGGTCA  
ATCAGCCTTTCTGAAGGTTTAGAATCAGGCGAGTTTATCCAACCAACCGTGTTTGCCGAT  
GTCACCCCCGACATGCGGATATCACGCGAAGAAATCTTCCGCCCTGTTATTTCCATCCTA  
AAGTACGACGATACAAACGGTGTTTCCGAAGCAATCGCACTAGCCAACAACACGAAATTC  
GGTCTCGGTGGCTTGGTATTTGGTGCGGATGAGGAACAAGCACTAGAAGTCGCCCCGTCAA  
GTGGATTCTGGTTCCGTAGGCATCAACTTCTTCGGTTCCAACCATTCGCCCCATTTGGA  
GGACGCCACGAATCCGGTATGGGAGTGGAATACGGCATCGAAGGCCTCAGTGCTTACCTG  
ACATACAAGAGTATTACCGAACCATT

>RXA00689-downstream  
TAGTTACTGAAAGTTCTCAGCTA

>RXA00715-upstream  
GTGGTGTTAAGCACTAAGATGGCAGGTTATGACTTCTCTTAAAGTAACTTCGTCCGCAGA  
TGCAACCAATAACAATGATGCCCATTTTCTGAAGGTCCA

>RXA00715  
GTGGTAACCGTTGACTGGTTGTACACAACCTTGACCGGGATGATGTCATCGTGTTGTGT  
GCCACAATGGAGGATGATGAAATTGCACGTCAAGCGGGAATTCCGGGGGCATTTCTCGCT  
GACTTGGAAGGAGATTTCTCAGATCCACATTCCGAGCTTCCACACACCGCGCCACCAAAT  
TTGGTGGGTTTGCTAGAAAGCTACGGCATTAGCACCGATTCCACGGTGGTTGTTTATGAT  
CTGCACGGCCTCATGGTTGCACCGCGGGTGTGGTGGCTTCTCCGTGTTGCTGGATTAAGC  
AGCATTGGCGTGCTTGATGGCGGATTGCCAGCCTGGGTGATGCTGGCCTTCCAACGGAA  
CCGCTGTGCTACCTACAAGTGGTGGAAGGATCAGCGCAGAACCACAGCCAGATTTACTC  
GTTGGTGCCCTCCGGCGTTGAACGGGCGATCGCGCGCTCAAGCAAGGCAGTGATTGATGCT  
CGTAATGCGAGCCGATTTCGCTGGCGTTGAAGAAGAGCCCCGTCCAGGCCCTTCGAAAAGGG  
TCGATCCCTGGAAGCGTCAACATTCCCTTCACTGACATTTCTGATGAGCATGGTTTTGTC  
CGGCCAGCAGAAGAACTGAAGGAATTGATCTTCAGCCGCACAAATGGAGCGCAGTCGTTG  
GTCTTTAGCTGTGGCTCCGGAGTCACGGCATGTGTTGATGCCTACGCTGCAGTTATCGCA  
GGTTATGACGACGTTGTAGTGATGAAGGCTCTTGGGCGGAGTGGGGCAACCCGGCAAC  
CAAAAGCCGATTGCT

>RXA00715-downstream  
TAACGCCCCGCTATGATAACCACT

>RXA00744-upstream  
TCTGAGTCGGTAGAAGTATTACCCAGTGACTTAAGTTTCTTAGATTTTTTTGAGCAACAG  
CGACCAGCCACGTTAGTGTGGTCGAGTAGAGGATAGCTAC

>RXA00744

ATGGGGAAGTGGGCAGAGATTACTGATGAAATTTCTAAGATTTACCAAGATAATCAGTAC  
 AAGATTAGACAAATAAATGATGTTGACGCAGTAAGCGATAAACGTAGAGAAGCGCTACAA  
 GCACTGTTTGAACATACTGGTCGAAATGTAATCGTCTATTATTCAGCGTGGTTAGAAAAT  
 GGTTCGACGATTTTCCGGGCAATCTACGGATTTTTCGGTAAATGATACTGATAAAAAACAGT  
 TTTATGACTGCGCTCCATAAGTTGGATCAGAGTAAAGGTCTCGATCTTATCCTCCACACT  
 CCGGGTGGAGATGTTGCTGCGACAGAGTCGTTAGTAGATTACATTCACGCACTCTTTGGT  
 CAAGATTTTCAGAGTCATTGTCCCCAACCTCGCAATGTCAGCAGGAACAATGATCGCACTT  
 TCGTCCAAAGAGATTGTTATGGGGAAGCATTCTAGTCTTGGCCCCATTGATCCTCAGTTT  
 AACGGCCTACCGGCACACGGGTATTGGAAGAATTTGAGCAAGCGAAGAAAGAGGTCTCT  
 GAGAATCCGCAGACTGCTCATATATGGCAGGTGATCTTGAATAAATAACAACCCACGATG  
 TTGGGTGAAGCTAAAAAGCTATTCAGTGGTCCAACTCGATGGTTAAGCAGTGGCTTGAA  
 AAGGGTATGTTTTTAGACGAGCCTGACAAAGAAGAAAAAGCCACTCGCGCTATCAAAGAG  
 CTCGCTGATCATTCCGTTACTCTTGCGCATAATCGACACATTTTCGGTCAGTAAAGCACTT  
 GAGCTGGGATTGAATATCAAAGAACTTGAGAGCGATCCAAAGCTTCAAGATTTAGTTCTT  
 ACTCTTACCACCTGTCCGTTATTGCTGCGCAACGAGGACCATTAAATTAAGTTTGTCGT  
 AATCATGACAACCGTGGCACTTTTCTGCAGGGGCATGAAAAC

>RXA00744-downstream  
 TAATTAAGTGATGCAATAGTCTA

>RXA00756-upstream  
 ATTTCGTAAACCTGCGCAGGATGAGACTGCCCTCGCAGAAAGCACATTCGACGAAGCCAC  
 CGCGTAAACAGTACGTGGTGGAAGCTTGAGAGGAAGACAA

>RXA00756  
 GTGAATATTGATGTCCAGGCTTTAAAGCCATCGAGTCTGAAAAAGGAATCCCAGTTCCA  
 GACTTGCTGCGCACCATCGCCTCTGCACTTTTGCATTCTGTACATGGATAATCGCGAAACT  
 GTTGCGTCTGCGAACCTGAAACCACGCGTGGACATCGATTCCACAACCTGGCACGGTCAAC  
 GTCATCGTCTCAGAATTCGACGAAAACGGAGAGCTCGCTTCCGAATACGACGACACCCCA  
 TCCAACCTTCGGACGAGTCAGCGCCCCGCGCTGTTGCGACGCGATCGTTAAGTCCCTGCGC  
 GAAGCAGAAGCAAGCCGAGCATTGATGCGTACGCAGATTATGAAGGCACCGTTGTGTCC  
 GGCATCGTTCAAGCAGATGCCCCGCGCAGCTGAACGCGGAATCATCATCGTGCACTGGGT  
 ACCGAAGCGGACAACCAAGACGGCGTTTTGCTCCCAGCCGAGCAGATCCCTGGCGAAAAG  
 CTCGAAGCAGGCGACCGCTCAAGTGCTTCGTGTTGGCGTGGGCAAGGGCAACACTGAC  
 ATCCAGATCAACCTGTCTCGTACTCACCCTGAGCTGGTGCGCCGACTGTTTGAAGTGGAA  
 ATCCAGAAGTTGCTGACGGATCCGTGGAAATTGTTGCTATCTCCCGCAAGCCGGACAC  
 CGCTCCAAGGTTGCTGTTCAAGCCAAGGTGAAGAACCTCAACGCCAAGGGCGCTTGCAAT  
 GGCCACGTTGGACAGCGTGTGTCCAACATCATGCGTGAACCTCGGTGGAGAAAAAATCGAC  
 ATCATCGATTACTCCGAAGATCCAGCAACCTTCGTTGGAAATGCACTGGCACCATCCAAG  
 GTTGTCACAGTAGAGGTCACCGATCTTGAAGCTCAAACCGCGCGCGTAAGTGTCCCTGAC  
 TACCAGCTTTCACTAGCAATCGGTAAAGAAGGTCAAACGCCCCGCTTGCTGCCCCGCTG  
 ACCGGCTGGAAGATCGACATCCACTCTGACATCGAT

>RXA00756-downstream  
 TAAAAGTCGCTTGAACCGGCATG

>RXA00772-upstream  
 GTCGCATTCTGCTTGCTGAAGTGGCACACCTATGTGTTCTGCTTGGGTATAGCAGTGC GG  
 GAAAAATTTGAAAAAGTCCGATTACCTGAGGAGGTATTCA

>RXA00772  
 ATGTCTGATCGCATTGCTTCAGAAAAGCTGCGCTCCAAGCTCATGTCCGCCGACGAGGCG  
 GCACAGTTTGTAAACCACGGTGACAAGGTTGGTTTTCTCCGGCTTACCGGCGCTGGCTAC  
 CCAAAGGCACTGCCTACGGCAATCGCTAACCGGGCTAAAGAAGCACACGGTGCAGGCAAC  
 GACTACGCAATCGACCTGTTCACTGGCGCATCGACCGCCCTGACTGCGATGGCGTACTT  
 GCAGAAGCTGACGCTATCCGCTGGCGCATGCCATACGCATCTGATCCAATCATGCGTAAC  
 AAGATCAACTCCGGCTCCATGGGATACTCCGATATCCACCTGTCCCACTCCGGCCAGCAG  
 GTTGAAGAGGGCTTCTTCGGCCAGCTCAACGTAGCTGTCAATTGAAATCACCCGCATCACT  
 GAAGAGGGCTACATCATCCCTTCTTCTCCGTGGGTAAACAACGTTGAGTGGCTCAACGCT

GCAGAGAAGGTCATCCTCGAGGTTAACTCTTGGCAGTCTGAAGACCTCGAAGGTATGCAC  
 GACATCTGGTCTGTTTCTGCCCTGCCAAACCGCATTGCCGTGCCAATCAACAAGCCAGGC  
 GACCGCATCGGTAAGACCTACATCGAGTTCGACACCGACAAGGTTGTTGCTGTTGTTGAG  
 ACCAACACCGCAGACCGCAACGCACCATTCAGCCTGTGACGACATCTCTAAGAAGATC  
 GCTGGCAACTTCCTCGACTTCCTGGAAAGCGAAGTTGCTGCAGGTCGCCTGTCTACGCG  
 GGCTACATCATGCAGTCCGGCGTGGGCAACGTGCCTAACGCGGTGATGGCAGGCCTGCTG  
 GAATCCAAGTTTGAAGACATCCAGGCCTACACCGAAGTTATCCAGGACGGCATGGTGGAC  
 CTCATCGACGCCGGCAAGATGACCGTTGCATCCGCAACTTCCTTCTCCCTGTCTCCTGAG  
 TACGCAGAGAAGATGAACAACGAGGCTAAGCGTTACCGCGAGTCCATTATCCTGCGCCCA  
 CAGCAGATCTCTAACCACCCAGAGGTCATCCGCCGCGTTGGCCTGATCGCCACCAACGGT  
 CTCATCGAGGCTGACATTTACGGCAACGTCAACTCCACCAACGTTTCTGGCTCCCGCGTC  
 ATGAACGGCATCGGCGGCTCCGGCGACTTCACCCGTAACGGCTACATCTCCAGCTTCATC  
 ACCCCTTCAGAGGCAAAGGGCGGCGCAATCTCTGCGATCGTTTCTTCGCATCCACATC  
 GACCACACCGAGCAGATGTCATGGTTGTTATCTCTGAGTACGGTTACGCAGACCTTCGT  
 GGTCTGGCTCCACGTGAGCGCGTTGCCAAGATGATCGGCCTGGCTCACCTGATTACCGC  
 CCACTGCTCGAGGAGTACTACGCTCGCGCAACCTCCGGTGACAACAAGTACATGCAGACC  
 CCTCATGATCTTGCAACCGCGTTTGATTTCACATCAACCTGGCTAAGAACGGCTCCATG  
 AAGGCA

>RXA00772-downstream  
 TAAGTTTTTCTTGGTTTAGAAA

>RXA00773-upstream  
 GCCCCCCAAAAGTGAAAGCACACCACCTTTCCTAGTTGCGCCCTGCTCACAATTTGCTTCA  
 AATATTTTGCCCAACCTGATTCACGGGGGACAATAGTTAG

>RXA00773  
 GTGACTTTAAAAATCGGCCCCCTTTGACCTTGCCCTCCCCTGTGGTTCTAGCCCCCATGGCT  
 GGTGTAACCAACGTTGCTTTCCGCACGCTGTGCCGTGAACAGGAAATGCAACGCACGGGA  
 ACAATCTCGGGGCTGTACGTCTGTGAAATGGTGAAGTGCAGCTGCTCTTGTGAGCGCAAT  
 GAGAAAACCATGCACATGACCACCTTCGCGCCGGATGAAAATCCCCGAAGCTTGCAGCTG  
 TACACGGTTGACCCGAAGTACACCTACGAAGCGGCGAAGATGATCGTTGATGAAAACCTG  
 GCGGATCATATTGATATGAACTTTGGCTGCCCGGTTCCAAAGGTCACGCGCCGGGTGGC  
 GGTTCTGCGATTTCCTTACAAGCGCCGTTTGTTTGAACATCGTTTCCGCGGCTGTGAAG  
 GCTACGGAAGGCACGGACATTCCGGTGACGGTGAAGTTCCGCGTTGGTATTGATGATGAG  
 CACCATACTCACTTGGATGCTGGACGATTGCTGTGACGCGCGCGGAAGTCCGTAGCG  
 CTTACGCCCCGACTGCGGCGCAGCGCTATTCCGGTGAGGCTGATTGGAACGAGATCGCG  
 CGCCTGAAGGAGCATTTGGCAGATACCGGCATCCAGTTTTGGGCAATGGCGATATTTTC  
 GCGGCATCCGATGCAACGCGCATGATGGAGCAAACCTGGCTGCGATGGCGTCGTGGTTGGG  
 CGTGGTTGCTGGGCGAGGCTTGGCTCTTTGCTGAGCTGTCTGCTGCTGTTCTGTGGAGAA  
 GAAATCCCAGAGGAGCCTACCTTCGGCGAAGTTACCCAAATCATCCTGCGCCACGCAGAA  
 CTCTCATGCAGCATGATGGCGAAACCAAGGGGCTGCGCGATCTGCGTAAGCACATGGGT  
 TGGTACCTGCGCGGTTTCCCTGTTGGCGGCGAATTCCGCTCCAATCTGGCCAAGGTTTCC  
 ACCTATGTGGAGCTTGGAGATCTCTAGCACCATGGGCTGACTCCACCGCCAAGGCAGAG  
 GACGCGGAAGGTGCACGAGGTGACAGGGCGCTCCTGCAAAGGTGGCACTTCCAGATGGC  
 TGGTTGGACGATCCTGAGGATGCCACTGTTTCTAAAGGCGCAGAAATGGAAAACCTCCGGA  
 GGG

>RXA00773-downstream  
 TAGTTAATTTAATACTTACCCCC

>RXA00778  
 CGCAACAACCTTCGCTGCAGCCCAGGTTGCTTTCCGGTGGCTCCGACTCCGCAATGAAGGAC  
 GACCAGGCTGCAGAAGCAGAAGCACGTTGCAACGGCAACGAAGCATGGCACCTGCCATTC  
 GTTATCGGCCAGTTGCAGTTGCTTACAACCTGCCTGGCGTTGACACCCTGAACCTGGAC  
 ACCAACATCATCGCTCAGATCTTCAAGGGCGAGATCACCAGTGGAACGACGAAGCAATC  
 GCTTCCCAGAACGAGGGCACCGACCTCCCAGACCAGGACATCTCCGTTCTGTACCGTTCC  
 GAAGAGTCCGGTACCTCCGACAACCTCCAGAAGTTCTCGGAGCTTCCACCGACATCTGG  
 GAGACCGAAGGCCAGCAGTTCCCAACCGAGGTTGGCTCCGGTGCGCAGGGCTCCAACGGT

GTAGCTTCTGAGGCTTCCAACATCGAGGGTGCAATCACCTACGTTGAAGCTGGTTTCGCT  
 AACCAGTCCGGCCTGGGCGTTGCAAACATCGACTTCGGTTCCGGCCCAGTTGAACTCAAC  
 GCTGAGTCCGTTGGGCGTTGCACTTGGTGCACTCGACTTCCTGACTGAGGGCCACAACATG  
 GTTGTGTGACACCGACGCTATGTTTCGCAATGAACGAAGCCGGTGCTTACCCACTGATCCTC  
 ACCACCTACGAAATCGTCTGCTCCGCAGGCTACGACGAGACCACCCGCGACCAGGTCAAG  
 GACTTCCTGACCGTTGCACTGGACTCCCAGGATGACCAGCTCGAGGCTCTCGGCTACATC  
 CCAGTTACCGGCGAGCACTACGATCGCCTCGTTGCAGCAGTTGAAGCAATTCAAG

>RXA00778-downstream  
 TAATAAACCGCTGCCGTAGCTTC

>RXA00787-upstream  
 CCAGCCCGCCCAATAAATAATTTCTCTCTTCTAATTGCGGAGCCTCATATATTGAGTACG  
 GTATTTTGAAACACCTTCAGCCCCCTTTTATAGGAGCCACA

>RXA00787  
 GTGTCTCAGCCTCTCAGCAAGCGTCTCAGCATACGAAAAGCACTCGCCAGCGCCTTCATA  
 GTTGGCGCTGGGCGTTTTCGCTTTCCCCAGTAGCCAAAGCCCAAGCCAATGAACTCCGACG  
 ATGATCGTGTTGGACAATTCAGGCTCCATGACAGCTCAAGATGCCGGCGGACAGACCCGT  
 ATCGATGCAGCAAAACAAGCCTCCACTCAGTTAATTAATGACATCTCCGACCGCACCGAC  
 GTAGGTCTGACCTACTACGGCGGAAACACCGGCGAAACAGAAGCAGACGTTGAGATGGGA  
 TGCCAAGACGTCACCATCCTTGGCGGCCCTCCCGAGGAAATGCAGACACCTTAATTGAC  
 ACGATCAACAGCCTGCAGCCTCGAGGCTTCACCCCCATCGGCAAAGCACTCACCGATACC  
 GCCGCCGAGCTCCCCGAAGGCGGAAACATTGTGTTGGTCTCCGATGGCATCGCCAACCTGC  
 ACCCCACCGGATGTCTGCGAAGTAGCCCAAGAACTGGCTCAAAGTGGAATCAACCTGGTT  
 ATCAACACCATCGGACTAAATGTTGATCCAGCAGCGCGCAAGAACTGGAGTGC

>RXA00791  
 CTATTCCTCACCGACCTGCCACAAGAATCCCGCTTTTGGAAAAATCCCTGTAGAGCCAGGT  
 GAAACCATCTCAGTTTCTGCCAACACAGTTACCGACCCAAACAGTACTCACCATGGGGCAA  
 GCGGAATCAAGCTTGAAGCCCAACTCCATACTGAAGAGGCTCCACAATACGGCCTGCGT  
 GGTCCGTGCACTCGGGTCTCATTGATAATTTCAAGCCCGGCCTTGGTGTACGCGGAATC  
 CAAAACGCGTCCGTTGCATCAAAGAAGTGGGCACCAACAACCTGTGACACCGATGCCATC  
 TACCTCGAAATTTCTAGAAGCGGAGATTACCTCAACGGGCAGGACATTTCCAACGGAAATC  
 ACCATCGAGCGCTTCGGAAGTAGATGAATCAACAATCGGAAATGTCACAGAGGAACAT  
 AGCTCCGTGATCTTACCGAGGCTGCAGCATCAGAGGCACACCCTGTCACACCTGGCCAG  
 TGGTTCACATCGGCCGCTGATCTAGATCCCGCAGGTGAGAAAGTCTCCTCCATCATCGTT  
 CCAGGAGAAACCCACTTCTATGCGCTGCCTGTGCACTACGGCCAAGAACTGCGCGCAGCT  
 GTAGAAACAACTTTTGACCAAATCGACAGTTCCGCGCTTGGCACGCATCTTTATATCCAA  
 GCGTTTCAGCCCAAACCGGCAGAGATAGAGCTACCAATAGAGATACGTCATATGCGGAC  
 GACAACGGGCTCAAACCTTTTGATTCTTCACCCCACTGAGTGCAGCAAATTTGTTTCGAG  
 AAAAGTTCTCAAGGCATATCGCTAAGGAGCCCATGGCAAGGTGGCACC

>RXA00793-upstream  
 TCGCTGGTTTTTTAGATGGTTTTCAAGCCAGCGAGACCACATTAGTTTCACGCTGGTTGAA  
 ACCTTTGAGATCAATATAGACCGTGTGGTCTACTCGAGGA

>RXA00793  
 ATGAGTGAAAACAATCCCACTACCTTGCACTGGTTCTTACCCACCTATGGCGATTCTCGC  
 GGAATCACAGCCGGCGGGCATGGCTTCGGCTTCCACTCCGGAAGCCGGACAGCAGACCTC  
 GATTACCTCTCCCAAATTGCCCTGGCCGCTGAACGAAACGGTTTTGAATCCGTCTGACT  
 CCCACTGGATTGTGGTGCGAAGATGCGTGATCACCACCGCAGCGCTGCTGTCTAGGACA  
 TCAAACTGAAATTCCTCGTTGCTATTTCGACCAGGCCAAGTTAGCCCCACCATCATCGCG  
 CAGCAGGGTGCTGCCTTCCAGAAATTCATAAATAACCGCCTGCTCATCAACGTGCTGGTG  
 GGTGGCGAAGACCATGAACAGCGCGCTTTCGCTGATTATTCTTCCAAAGAGGAGCGCTAC  
 CACAAGGCTGATGAAACCTTAGAGATCATCGATCACCTATGGAACAGCGCAGAACCTCTA  
 AATTTCCAGGGTGAATTCTCAGTGTGAAAACGCGGTATTGAAGGAACAGCCCGAGGTT

TCCCCACCGATTTACTTTGGCGGATCCTCACAACCTCGGCATCGAAATCGCAGCCCCAACAT  
TCCGATGTTTTATCTCACCTGGGGTGAACCTGCGGAAAAGGTAGAGGAGAAGCTTGCCCCG  
GTGCGCGCCGAAGCAGATAAGCGAAACCGCGAAGTACTATGGCATCCGCCTGCATGTC  
ATTGCTCGACCAACTGAGGATGAAGCCTGGTCAGTGGCTCAAAATCTTCTTGACCAACTT  
GATCAGGAAGAGGTTGCCCCGATTCAGGAAGGGCTTGCAGCTTCTCAATCGGAAGGTCAG  
CGTCGCATGACGGAACCTTCATGGACAAGGGGCGAGCATTCACAGCAGGAGCAGATGCTCGC  
TCCCTTGAAATTGCACCGAATCTCTGGGCGAGGTGTTGGGCTAGTCCGCGGTGGCGCCGCGC  
ACAGCGTTGGTGGGTTCCTATGAGCAAGTCGCGCAAGCAATTTTGCATACCGCGATATT  
GGTCTGAGCCACTTCATTTTCTCCGGCTATCCACATTTGGAGGAAACCTATCACGTGGGC  
GAAGGAGTGGTACCTGAGCTCCTCAAATTGGGTGTTCCGGTGAACAACCATGAAGAACAA  
CGCAACGACGTGGTAGCGACTCCGTTTATTTCCAGA

>RXA00793-downstream  
TAGATCACGGATCGGCTGCTTTA

>RXA00797-upstream  
TTCATTGAGGGTGAATGCTCTCCTTGTTTCAGATGTTCAACGCTCCATAAAGTAGACCGC  
AATCTAGACAAAGATGTCTATTTTAATTAAGGAGCAGAAC

>RXA00797  
ATGGCCACGGCCGAGAACACACAGGAGAATCGGAAAATCCTGTTCAACGCATTTGAT  
ATGAAGTGCCTTGCAGCATCAGTCCCCAGGACTGTGGACACACCCGAAGGATAAGGCGCGA  
GACTACAACACTCTTGATTACTGGGTGCACCTTGCCAAGACTTTGGAGAAGGGCCTTTTC  
GACGGCCTTTTTCATCGCAGATGTGCTTGGAACCTACGATGTTTATGGTTCTAGTAATGAA  
GCGGCGTTGAGCAGTGGTGCAGGTGCCTGTCAATGATCCGATCCTTCTTGTCTTCTGCG  
ATGGCCTATGCCACAAAGAACCTCGGGTTTGGCATTACTGCAGGTACTGCCTATGAGCAC

>RXA00820-upstream  
ACTTCCACCACCCCAAACCATCGTTTCTTTTGAAGACGCACCAACCTCACCGGCCAGGA  
CCTGGGCTTTTTCGAGTGGCGCACTGTACCCAGGAGATG

>RXA00820  
GTGAACACCTTCGCGGACGCAACTGATGATCAGCAGTGGATTACACTGATCCTGAGCGC  
GCCAAGGACGGTCCCTTTGGTGGCGCAATTGCCACGGTTTCTCACCTTGTCATGATC  
ATTCCGTTCTGGGGCGAGCTTCTCGATGTACCGGCGTGACCACCAAGGTGAAGTATGGC  
CTGGATAAGGTGCGTTTACCTCTCCCGTCAAGGTGCGTTCCCGCATCCGCATGGGCGCT  
GTGGTCCGTGAGATCTCTGAGGTGAAGGGCAATGGCCTGCACCTGGTCCCGCATGGCACT  
ATTGAGATCGAAGGGCAGGAGCGCCCGCGCTCGTAGCTACCTTCCTCACCGCTTCTAC  
GCT

>RXA00820-downstream  
TAAAAGCTTGCTTCTCGACGCAA

>RXA00833-upstream  
AGCTTTTTTGATGTGTCATATCGTACCGTTTGCATAGGCCTGTTTCGCGCTTGGTGAACCT  
TTTCTAGCACCAAAACAAACTCTCCCTAGTATGGGGTCC

>RXA00833  
ATGGCTAAAACACATTTTCAAGGCAACGAACTGCTACCTCCGGCGAACTGCCACAGGTC  
GGCGACAACCTCGCAGAGTTCAACCTCGTCAACACCGAACTGGGCGAGGTCTCCTCAAAG  
GACTTCCAGGGCCGCAAGCTTGTCTGAACATCTTCCCATCCGTTGACACCGGCGTTTGT  
GCAACATCAGTCCGCAAGTTCAACGAGGCGAGCAAGCCTGGAAAACACCAACCGTGCTG  
TGCATCTCCAAGGATCTTCCATTCGCACTGGGCGGTTTCTGCTCCGCAGAAAGCATCGAG  
AACGTACCCCCAGTATCCGCATTCGGTTCCACCTTCGGTGAAGACAACGGCATCGTGCTC  
GAAGGCTCA

>RXA00844-upstream

GGTGACGGCCAAAGGCGCGCGCATTGCGCGCCCCAAAATCGACGTCATTGACAGCATCTT  
GTGACAACATTTTGTAGAGCAACCATCTAGACTGTTCTTT

>RXA00844

ATGTCTTCTGCGTCATTTACCACCAAAGCACTGTCCGTA CTGCGAGCTTTAACGGCTGCG  
TCTGCCCTTAGTGGCGGTCACCTGCACATGCTTTGGCAAATGCTCGCAACGTTACG  
GGTTCAAGCACCACCTTCAGATTCAATTGTTTCGTCTGCACATCGGTAACACTGCATGTACA  
GGAACCATGATCACCCCAACGTGGGCGATCACCGCCCGCCACTGTATCCCTGAGGGCGGT  
ATTGCCGCTGCGTATTGGTTCAAGCACTTTGAGCCAATTTAGCAGGTGTCCCAAGCG  
ATCTTGACCCCTACTGCGGACTTAGCTCTCGTTGAGCTTCCCAATCAGGCAAGTTCCAAC  
ACGGTTGATCTCTACGGTGCACACGTGCAGCCTGGTGAAAATGGTCAAGCAGCCGGCTGG  
GGTGGGTACTCTGCCTTTGGCCAAAATGTTGCACAGCAAGCCGATGTGCAAATTCAACGC  
AGGGTAGTCAATGTGCCAAGCCCCGACCGCACCGCTGTGCTGCTTGAAGGCACTGTTTCT  
AACGGTCGTCTCGTACCAGGCGATTCCGGCGGACCTTTGTACATCAATGGTCAACTGGCT  
GGTGTGCTCAGCATGTCCACTGACGTAGAAAACGATGCACTAGACGGCACCGTCGGCTGG  
TATGCCCCCTTGCTGAACACGCGGAGTGGATCGCCTACTACACCGCAAGCACATGGC  
CCATTGCTGGTGCGCCCGCAGAACTTGTGACGCCACCGCCAACCCACCTTCATCCCT  
GCTCCACAGCCTTTACCCGGTTCATCCATCGGTGGTTGGGCGCTGGGCAGCTCC

>RXA00844-downstream

TAGAATATGCTGATCTCCCTGCT

>RXA00857

GCAGTCGGTATTGAGGTGCCAAACTCTGACCGTGAGATGGTTTCGCCTGGGTGATGTGCTC  
AATGCGCGTGCCACCGTGGAACAAAGACTCCATGCTCATTGGTTTGGGTAAGGATATT  
GAAGGCGACTTCGTGTCTACTCCGTGCAGAAAATGCCTCACCTTCTTGTGGCTGGTTCC  
ACCGGTTCTGGTAAGTCGCGCTTCGTGAACCTCGCTGCTGGTGTCACTGCTCACGCGTGCA  
AAGCCAGAAGAAGTCCGTCTGATTCTGGTGGACCCAAAGATGGTGGAACCTCACACCATAC  
GAGGGCATTCCACACCTGATTACGCCGATCATTACCCAACCAAGAAGGCCGCGGCAGCA  
CTGCAGTGGCTGGTTGAGGAAATGGAACAGCGCTACATGGACATGAAACAAACCCGTGTG  
CGCCACATCAAGGACTTCAACCGCAAGATTAAATCTGGCGAAATTGAGACCCCTCCAGGA  
TCCAAGCGCGAATACCGTGCGTACCCATACATCGTGTGTGTGGTTCGACGAGCTCGCTGAC  
CTGATGATGACCGCACCGAAGGAAATCGAAGAGTCCATCGTGCGCATCACCCAGAAGGCA  
CGTGCCGCCGGTATCCACCTCGTGTGGCAACGCGAGCGCCCATCCGTGGACGTTGTGACC  
GGTCTGATCAAGACCAACGTTCCCTTCACGTTTGGCTTTTCGCAACCTCATCGCTAACTGAC  
TCCCGCGTTATTTTGGACCAGGGTGGCGCTGAAAAGCTGATCGGCATGGGCGACGCGCTG  
TTCATCCCACAGGGTGCCGGAAGCCACAACGTATCCAGGGTGCCTTTGTACCGGATGAA  
GAAATCCAAGCGGTCTGGACATGGCCAAGGCTCAGCGCCAGCCTGAATACACCGACGGT  
GTCACCGAAGATAAGGCTTCCGAAGCTAAGAAGATCGATGCCGATATCGGAAACGATCTG  
GAAGATCTCCTCGAAGCAGTCGAACCTCGTGGTGACCTCACAATGGGATCCACCTCCATG  
CTGCAGCGCAAACCTGCGCATCGGTTTGGCAAAGGCCGACGCTCATGGACCTCATGGAA  
ACCCGCGGTGTGGTGGGCCATCCGAAGGCTCTAAGGCTCGTGAAGTTTTGGTCAAGCCA  
GAAGAGCTGGAACCATTTTGTGGATGCTTAAAGGTGCAGACCCCGCCGACGCACCGAAG  
GAAGAGACCTGGGATGACGAGGTGGCAGCGGAAGCTGAAGAAGCGGCTAACACCACCGTC  
GTGCAGGCTGATCCTTCCAAGGGAGTGTGT

>RXA00857-downstream

TAAGGCTTTAGGAGCCTAGTGGC

>RXA00866-upstream

GCATCAACGTAGGAGATCCTCGACTTCCAATTATGGCTCCAAATGAGCAGGAACTTGAGG  
CTCTCCGAGAAGACATGAAAAAGCTGGAGTTCTATAAAT

>RXA00866

ATGAATGATTCCCGAAATCGCGGCCGGAAGGTTACCCGCAAGGCGGGCCACCAGAAGCT  
GGTCAGGAAAACCATCTGGATACCCCTGTCTTTTCAGGCACAGATGCTTCTCTAACCAG  
AGCGCTGTAAAAGCTGAGACCGCCGGAACGACAATCGGGATGCTGCGCAAGGTGCTCAA  
GGATCCCAAGATTCTCAGGGTTCCGAGAACGCTCAAGGTTCCGAGAACCGCGAGTCCGGA  
AACAAACACCGCAACCGTTCCAACAACAACCGTCGCGGTGGTTCGTGGACGTCGTGGATCC  
GGAAACGCCAATGAGGGCGCGAACAACAACAGCGGTAACCGAACCCTCAGGGCGGAAAC

CGTGGCAACCGCGGTGGCGGACGCCGAAACGTTGTTAAGTCGATGCAGGGTGCGGATCTG  
 ACCCAGCGCCTGCCAGAGCCACCAAAGGCACCGGCAAACGGTCTGCGTATTTACGCACTT  
 GGTGGCATTTCGAAATCGGTGCGAACATGACCGTGTTTGAGTACAACAACCGTCTGCTC  
 ATCGTGGACTGTGGTGTGCTCTTCCCATCTTCAGGTGAGCCAGGCGTTGACCTGATTCTT  
 CCTGACTTCGGCCCAATTGAGGATCACCTGCACCGCGTCGATGCATTGGTGGTTACTCAC  
 GGACACGAAGACCACATTGGTGCTATTCCCTGGCTGCTGAAGCTGCGCAACGATATCCCA  
 ATCTTGGCATCCCGTTTACCTTGGCTCTGATTGCAGCTAAGTGTAAGGAACACCGTCAG  
 CGTCCGAAGCTGATCGAGGTCAACGAGCAGTCCAATGAGGACCGCGGACCGTTCAACATT  
 CGCTTCTGGGCTGTTAACCCTCCATCCCAGACTGCCTTGGTCTTGCTATCAAGACTCCT  
 GCTGGTTTGGTCATCCACACCGGTGACATCAAGCTGGATCAGACT

>RXA00877

GCAGCAGCAGTTGGCACCGAAGGCTACGTGGTTCCTGGAAGTGGCCACCGTGCAGTCA  
 GAGCAGGCAGTATTAACCGAATCCGCCTCGCGTGCAAAGCTTTATGAAGCCTCCCAGAAG  
 CGTGGCGCCAGCCTGAACAAGGACGTGCTGCTCGAAACCGTGCGTCTGCGTGCTGAACGC  
 GCCACACTTTTAGGCTACGACACCCACGCGGATTACGTTCATCGAAGAAGAAACCGCCGAT  
 GACGTGCGAGCCGTGCGCGCCTTGCTTTATGATCTCGCCCCAGCCGCCTCTGCCAATGCG  
 AAAGCCGAATACAACTCTCCGCAGAAGAAGCAGAAGAACACGGCCAAAAAGTCGGCGCA  
 GCTGACTGGAGCTTCTGGGAAGCCAAAGTCCGCGCCCGCGACTACGCCCTGGACGAAACC  
 GAACTGCGCAACTACTTCCCATTGAACCAAGTACTCCGTGACGGCGTCTTCTTCGCTGCT  
 AACCGCCTCTACGGAATCACCGTGGAACCACGCCCTGACCTGCGCGGTTACGCCGAGGGC  
 GTGGACGTCTGGGAAGTCTCGATTCTGACGGCTCCGGCATCGGCCTGATCCTTACCGAC  
 TACTACGGCCGACCATCCAAGCGGGGCGGCGCTTGGATGTCCAGCTTTGTGACCAATCC  
 GAGCTGTAGGCACCAAGCCAGTCGTGGTCAACGTTATGGGTATTACCAACCAACACCC  
 GGCGAAGCACTACTCAGCCTCGATGAAGTAACCACCATCTTCCACGAATTTCGGCCACGGC  
 CTGACGGCTTGCTGTCCAAGGTGCGCTACCCAAGCTTCTCCGGAACCTCCGTGCCCCGC  
 GACTACGTAGAATTCCCCTCCCAGATCAACGAAAAGTGGGCATTGACCCCTGCAGTAGTC  
 CGCAACTACGCCCCGCCACGTGGACACCGGCGACATCATTCCAGACTCCCTGCTTGAGGCA  
 GTGGAAGCATGTGGCATTTCAGACAGAGTGGTGGAAACATGTGAGTACTTGTCCCCATCTA  
 TTATCGACCTGCCCTGTCTCTCCCTGTCCACAGCGGATGCCGCAC

>RXA00877-downstream

TAGTCAATGACATTGACCAATTA

>RXA00888-upstream

ATGGTGGCGCTCGCAGCTATCGGCGTGCTGTCTGACCGCTGGTAACATTTCTCTGACATA  
 ACCTTTCTTGAACATTCCGAAAGCAGGCCGAAGTAGCACT

>RXA00888

GTGACTGCCCGCGAAAAACCCGCACAGAAGTAATCACCACTGTCTCAATCTAGAACGC  
 ACGCTCGCGCAAACCGTTTATAGGAATCAACGACGAAAACCTGCGTGTGTTGGACAATCAA  
 ATTGATTGCGATATTCACGTGCGTGGCACCCACGTGGAACCTACCGGGCCAGCCACGAA  
 GTCTCCCGCGCCTCGAAAAATATTTGAGGAAGTGCAGGCGATTGCCCGTCGAGGACATGTG  
 ATTAGCCCTGAGACAGTAAAAAATGTCATCAGCATGATTAACGTGGAGACGCCGCAAACC  
 GTCTCTGAAATCTTGACCGGCGATATCCTTGCTCGCCGTGGCAAAGTGATCCGCCCTAAG  
 ACGCTTGGCCAAAAGCACTACGTGGACGCGATTGATACCAACACGATTGTGTTCCGGTCTG  
 GGCCAGCCGTTCCGGTAAACCTATCTGGCCATGGCAAAGCCGTCCAAGCGCTGCAA  
 TCAAAGCAGGTACGCCGATCATCTTGACCCGCCCGCAGTGGAAGCCGGCGAGAACTC  
 GGCTTCTTGCCCGGCACCCCTGAACGAAAAGATCGACCCCTACCTGCGCCCGCTTACGAC  
 GCGTGGCGGACATGGTGAACAGAGTCAATTCGAAACTCATGGAAGCCGGCATCGTA  
 GAAGTGGCCCCACTTGCCCTACATGCGCGGACGACCCCTCAACGATGCATTGCTGATCCTG  
 GATGAAGCCCAGAACACACCCAGCACAGATGAAGATGTTCTCACCCGCTGGGATTC  
 GGTTCGAAAATGGTAGTCACAGGTGACATCACCCAGGTGGACCTCCCAGGAGGCCAAAAG  
 TCCGGCCTGCGCCTGGTTCGCCACATCCTGCGCGGAGTAGACGATGTGCACTTCTCCGAG  
 CTCACCTCATCCGACGTGGTCCGCCACCAACTGGTTGGACACATTGTGGATGCATACGAA  
 GACTATGAAGAACGCGAGGCCCGCGAATTGAAACGCAAACGCCAGGAGACACGGCCA

>RXA00888-downstream

TGAGCATTGAGGTATTCAACGAA



>RXA00892-upstream

TTGATCGCTGCGAAATCGGGCAGCTGGTAGGGCAAGGTGCTGGGCTTGAGCAGGTGTTCA  
ACAGTCATAGTGACCGATACTAGTTGCTAGAGTTTTTCATC

>RXA00892

ATGTCTGCCACCTCTTCCGTCACCGTTGAATGCCCGGCGGGAACCATCACCGGCGAGCCC  
CATTATTTCCGCTCGATTCCCTACGCAAAGGCGCGCCCGTTTGCTGATGCCGAAAAGCTA  
GAACCCCTGCGCATTGATGCGACCGGCAAGCACGAGGGTCTCTATTTAACGTTGGCAACC  
CCGGAGGCACGGTTCCGGCGCGGATGCCCCGGTGATCGTTTATATCCACGGCGGAGGATAT  
GACGGTGGCACGCGTTTCGATGCCCGCACCGAGCCCACTTTCTTCCGTGAGCAGGGCTTT  
GTGGTGGTCTCCATCGATTACCGCGTCGGCCTGGAGGGCTTTGCGCGCTTCCACGACGAC  
GAGGCCAATCGTTACCGCGGCATCGATGATTGCGTGCTCGCGCTGGAGTGGGTGCAGAAA  
AACATCGAGCATTTTCGGCGGCGATCCCACCAACGTCAACCTCATCGGGCAGTCCGCGGGC  
GCCGGCATCGCGCTCTGGCTCACGCGCCTAGACCACTATAAAGGTGCTTTTCGACGCCTG  
GTTGCGCTCTCCCCAGCTTCCCGCGCCAGCCATTGCTGCCCCGAAAAGGTGCTTTACGA  
CGCGCCCTGGGCAAACCCGTCACCCGCGCCTCGCTGGCGGGCATCAAGCCCGCACGCTTG  
GACAAAGGCTACCGTCGCTTTGCTCGCCGCTACTTCACCGACCTGGCACTCGGCCCTACC  
CCATACGACCCGAATGAGCTGGCCGACATCGATTGATCATCTCTCCACCCGCGATGAA  
ATGTACGGACACCGCGCAGGCTTATGGTTCGACCAGCGTGGCTTCGGCGCAAACTGGCC  
GCGCGACTTTTTGCGCTGGAGAATTGCGATACCAATATTAAGGAAGCCCCAAGA

>RXA00892-downstream

TGACAACCGCGTTGTAGGCCGCA

>RXA00903-upstream

GCACTCGGAATCGTCGTCCTAGAAAAGAAAGACGCCTAAAATGCCCTCTAAAATATCGCG  
GCCCTATTACCAAGTAGATGTATTGAGCTCCGAGCCGTTT

>RXA00903

ATGGGAAACCCGCTTGCTGTCATCGCCGATGCTGATGACTTAAGTGCCGAACAAATGGCC  
CGAATCGCTAGGTGGACAAACCTCTCAGAAACCACATTTCTTTTAAAGCCAACCCAAGAA  
GGTGCTGACTACCGGGTACGCATTTTACCCCAACCGGTGAGCTCCCCCTTCGCTGGACAC  
CCAACACTCGGAACCGCCACGCTGTTTAGGGAATGCACGGTGAACAGGGAACCCAGTTG  
GTTACAGGAATGTGTCGCCGTTTAGTTGCTGTGCGCGCTATTGACGGGCCAGCAAGTGGGA  
TTGGCTTTTACAGGCTCCACCCACACTCAAAGACGGGCCATTGGATGCTTCCGACCTAGAC  
GCAGCTTGTGAGGCTTTAGGAATCAGCCCCGACTTCATTGAGCCCAACATGGGTAGAC  
AACGGCCCCGCTGGGCAGTAGTGGAGCTACCGAGCGCCCAACACGTATTGGATCTGGAA  
CCCGATTTTCAGTGCACATCCAACATTGAAACTCGGAGTGATTGGGGCCTATCCCGAAGGG  
GCTCCCCACGCTTTGAAGTACGGGCATTGCTCAAGGAATCGGTGAAGACCCAGTTACA  
GGAAGCCTCAATGCATTCATTGCGCAGTGGCTA

>RXA00905

GATCCAAACCTACTGGAGGACTACGCCGGCGCGAAAGAATGGGTAAAAGAAACACTGACC  
AACGCAGGTCTACCGTCAGCGAATTGCTGCCGAAGATGGAACCACTTTCATCGGC  
ACCCGCAAGGGCTCCGAAGGTGCACCAAGGTACTGCTGTACAGCCACTTCGACGTTGTC  
CCATCCGGCCCTTTGGATCTCTGGGACACCAATCCTTTTGAATCACCGAGCGCGACGCT  
GGCCACGGCACCCGCTGGTACGGCCGCGCGCCGCTGACTGCAAGGGCAACCTGGTCATG  
CACCTCGCAGCACTGCGCGCCGTGCAAGCCAGCGGCGACACCACTCAACCTCACCTAC  
GTGGTTCGAGGGCTCCGAGGAAATGGGAGGCGGAGCGCTCAGCGCGCTCATCAAGGACAAG  
CCTGAGCTTTTCGACGCAGATGTCATCTTGATTGACAGACAGCGGAAACGCTTCCGTGGGC  
ACCCCAACCTTGACCACTACCCTGCGCGGTGGCGGACAGGTACCGTACCGTGGACACC  
CTTGAAGGCGCTGTTCACTCCGGCCAGAACGGTGGCGCTGCCCCAGATGCTGTTGCTGCT  
CTCGTGCAGCTTCTGGATACTTTGCGCGATGAACACGGACGCACCGTTATCGACGGCTGT  
CAACACCACCGCAAACCTGGAAGGGCGAGCCTTA

>RXA00905-downstream

TGATCCAGAGACTTTCGCGAGCG

>RXA00906-upstream

ACCGTGGACACCCTTGAAGGCGCTGTTCACCTCCGGCCAGAACGGTGGCGCTGCCCCAGAT  
GCTGTTGCTGCTCTCGTGCGGCTTCTGGATACTTTGCGCG

>RXA00906

ATGAACACGGACGCACCGTTATCGACGGCTGTCAACACCACCGCAAACCTGGAAGGGCGAG  
CCTTATGATCCAGAGACTTTCCGCAGCGATGCCGGCATCCTCGACGGTGTAGACATCATG  
GGCGACGGCGACAACCCAGCAAGCATGCTGTGGTCCAGGCCTGCAATCTCCATCACCGGA  
TTCACCTTCCACCCAGTGGCAGAAAGCACTCAACGCAGTCCCCGCAACGGCGTCCGCCAAG  
CTAAACCTTCGCGTGCCAGCAGGCCTGGAAGCAAACGATGTGGCCGAGAAGCTGAAGCAG  
CACCTGATCAATCACACACCTTGGGGCGCAAAGATCACGGTGGAGATCGATGACATTAAC  
CAACCGTTCTCCACCGATATTACCGGCCCTGCAATGTCCACCCTGGCGTCCTGCCTGAGC  
GCTGCGTACGAGGGCAAGGATCTTGTACCCGAAGGCAGCGGCGGATCCATTCCACTGTGT  
ACCGAACTGATTGAGGTCAACCCA

>RXA00906-downstream

TAAGCAGAATTGGCACTCTACGG

>RXA00907-upstream

CCTGAGCGCTGCGTACGAGGGCAAGGATCTTGTACCCGAAGGCAGCGGCGGATCCATTCC  
ACTGTGTACCGAACTGATTGAGGTCAACCCATAAGCAGAA

>RXA00907

TTGGCACTCTACGGTGTGGAAGAACCCTCACCGTTATCCACTCCGCTAATGAATCTGTT  
GACCCCAATGAGATTGCGGATATCGCCACCGCAGAAGCATTGTTCTGCTCAACTACACC  
AAG

>RXA00907-downstream

TAGACCCAAAAGCAGGCGTTAAC

>RXA00912-upstream

CGTACTCGACGCCGACGATGAGCACCTCCGCCGAGAAATCCAAAACGTGCGAGACCT  
AGAAGCCACCCTGATCCACACCTTTGAAAGGAGCTAAGCG

>RXA00912

ATGGACAACACCCTCTACACAGCAGGCCTCACAATCGCAGCTGCCTTTTTTCATGCTGTCTG  
TTCATCTTACCATCTACCGCATCATCGTCGGGCCCAACTCCATCGATCGCCTACTCGGC  
CTGGACGGAACCGTCTCCATGATTCAATGCTCCATGGCCACCTACATCTGCTGGACACTC  
GACACCACCGTCACCAACTTCATGATGGTCATCGCACTCTTAGGATTCATCAGCTCTGTA  
TCCGTAGCCCGCTTCCGCAAGAGGGATGGTGCC

>RXA00912-downstream

TAAATGACCCTGCAACTATTAC

>RXA00944-upstream

AAATAGTGGGATTAACCCATTAATTTTATCGCTCTATTTAGTTTCGTCACTGTGTCTGTTA  
ATCAATTGACTTCCTGCGTGGTTGAATCAGCGCAAGGATT

>RXA00944

GTGGATTTTTGGACTATTCTCGACACCATGACTTCCCTCCTTACTCCCATTGCAATCCGT  
GGATTAGAAATTCCCAATAGGATGTGGCTCGCGCCCATGTGCCAGTACCAAGCCAATAAC  
CTCGATGGGGTTCCACTTGATTGGCACCTCGTGCATTACGGAGCCCGAGCTGTTGGCGGC  
TTCGGACTCCTCATCGCGGAATCCACCGGCATTAGTCCAGAGGGAAGAATCTCATCGCGT  
TGCACTGGCCTATGGAATGAGGCCCAAGTTGAGGCATGGGAGAGAATTACAAATTTTGTC  
CACGCTCAAGGTGGACTGATCGGTGTGCAACTTAACCATGCAGGCCGCAAAGCGAGCACA  
TATCCGGCCCTTCCCTAACTTCCCTACTGGTACTCAATCAGTTGACGAGGGTGGATGGGAA  
ACCTTTGGGCCTAGTGCTGTGCTCAGCCGGGGCTTGCAAGATCCGACCGAATTGACCCGC

GAAGGTATTGAAAAGGTTATTCAGGATTTGCTGCTGCTGCAGAGCGCGCGGTGCGTGCA  
 GGGTTTGTATGCTGTGGAGGTCCATGGTGCCACGGTTACCTGTTGCATCAGTTCCTCACT  
 CCCCTCGCAAATAAACGTACTGATATTTATGGAGGTTGCTTTGAGAATCGCACACGACTA  
 TTTAGGGAAGTAGCCCAGGCGATCCGTGCAGTGATTCCGGGCTCGATGCCACTGATTGCC  
 CGGATCTCTGCCACGGACTGGATTGATGATGAACCTTCGTGGGATGACGATCAAACCGTC  
 TCGCTTGTGTGTCAGGATCTGAAAAAGCTGGGTGTGGATGCAGTCGATATTTCCACCGGAGG  
 TGCAGTACCCGCGACAATCCCTGTGGAGCCGAGCTATCAAGTGAAATTTGCTCGTCGTGT  
 GAAGCAAGAGGTGGGTATCCCTACCTCCGCGGTTGGATTAATTACTCATGTGGGTCAGGC  
 GCAGGGGCATCT

>RXA00944-downstream  
 TGATCGTGGAGATGCGGACATTA

>RXA00961  
 CTAGAGAACTGGCGTATCGGCCGCGATGTTGCTGCTTGGCGACGCCGCCACGCACCCCTC  
 CAGTACCTCGCCTCAGGCGCGGTTCATGGCCATGGAAGACGCCGAGGCTGTGCCCCCTCTC  
 GCTGCCGACGCTGCGCGTGTGGCAACCTCGATTGGGAAGAGGTACTCGCAGAGGTGGAA  
 GCTGAACGCCGACACGCTGCAGCCGATCCAAACCGTAGGCCGTTTCTGGGGAGAGCTC  
 TGGCATGTGGAAGGCACCGCACGTCTCATCCGCAACGAAGTTTCCGCCAAGCAGACCGC  
 AATGGCTGGTTTCATCTATGCAGACTGGCTGTGGGGTTACGATGCATCCAAGCGTGCCAC  
 ATCGCCAACCCTGAGCTCGGAGAAATGCCACAAGCACTGAAGGAATGGCGCTACGCCCTC  
 CTCGAACAGAAA

>RXA00961-downstream  
 TAGCAGCCTCACCTGTTAAGGGA

>RXA00964-upstream  
 TTCAAGGGCTAGACGTATGCAGGTGTTGGGGATTGCTTATCTCAAGGGCAATCACACCCT  
 TCATACGCATCTACAACATCCGTAAAGGAGGACTCCAACA

>RXA00964  
 ATGGGCGCCCCAGGTAAAAACGATTACGCAACTGAACACGTCAAGCAAGAAGTCCCACCC  
 GCAACTCCAGAAGAGCAGGCAGAGCTGGACACCATGTATAAACGCATGGATGACCTGCAT  
 CTAAAGCCCCCTGTGGACTCAAATCGGTGGGTTGATGCCAAACCACCCGGAACCACGAGCT  
 GTGGCACACAAGTGGGATTGGGCGGAACTCCTGAAGCTCGCGCAGCGCTCCGGTGAATC  
 GTTCCAGTTGGGCGCGGTGGCGAACGCCGTGCCATTGGCCTGGCAAACCCAGGTTTAGAC  
 GGCAATACCTACATCTCCCCTACCCTGTGGGCAGCAATTCAAGTACCTCGCTCCGGGTGAG  
 AACGCTCCAGAGCACCGCCACTCACAAAACGCATTCCGCTTTGTTATCGAAGGCGAAGGC  
 GTGTGGACTGTGTTAACGGCGATCCAGTACCAATGCGACGCGGCGACTTCCTGCTCACC  
 CCAGGCTGGAATAACACGGCCACCACAACATCGCGACCGAGCCAATGGCCTGGCTAGAC  
 GGGCTCGATATCCCATTGTCCTACCAAATGGACACCGGATTCTTTGAGTACGGCACCGAA  
 AAACCTCACTGACGAATCCACCCCAGACCTCTCCGTTTCAAGACGCCTGTGGGCCACCCA  
 GGACTTCGCCCAGTCTCCTTCCCAGGAAAACTTCCTACTACCAATTGGGCGCTACGCC  
 TGGGAGCACACCGACGACGACTCAACGATCAGCTGGCATTGGAAGAAGCAGGACACCCA  
 GGAACAGTCGCGCCGGGACATGCTGCGATTGCTTCTCCAACCCAACTACCGGTGGCGAT  
 GTCATGACCACCATCCGCGCGGAGTTCCACCGCCTGCGCCAGGTGCATCCACTGCCCCC  
 ATTCATGAGGTAGGAAACCGTTGCTTCCAGGTATTTGAGGGTTCCGCAACAATCAATGTT  
 GGAGATAAAACCTTTGAAGCTAACACGGCGATGTGATCAATGTACCGTCGTGGCAGAAG  
 TGGAAATATCGTCGCTGGCTCTGACGGCGTCGACTTGTTCTGCTTCTCTGATACACCAATT  
 TTCGAGGCCCTTAACCTCGCACGTACTTTTACTCCGGAAGGAATC

>RXA00964-downstream  
 TAGAACTTATGCGTCTTGCAACA

>RXA00977-upstream  
 GAAAACAAACGTCCCTTGAAGCCGTAATGCCCCGTTGACAAATAAAAAGGGTAGTAGCAGT  
 TCTTGCCGCTCGACTGCGCTTAGCCCCCTTTTGGGTATCA

>RXA00977

ATGCCCCTGCAGCAGCGCAAGAAAACATCCGCTGGGAAGAATGCCACCTCAGGTAGAT  
ATTGCCTCCGCTCAATGTGGCAGCATCGACGTGCCCATGCACTATTCTGATCCCTCACTT  
GGCGATATCAGCGTGGGCTTTGTCAAGGTCCCTGCCAAGGCGAAAAGCACGGCACCATC  
TTCGGTAACTCCGGTGGCCCTGGTGGCGATGCCTATAGCTTCTTCGGCAGCCAATCCATG  
AATGGCCAGAAGCCATGTACCAAACTACGACCTCGTTGCAGTGCAGCCTCGCGGAATG  
GTCGGCTCCACACCGGTTAACTGCGACAACATCGCACCAGGATACGATTTCTCTCGCTG  
CTCACCCGCGAAGGCGCTTTTCGTAAAGAATCCTGCGAGATCGGCACCCCGGCTACACC  
TCCAGCCTGACCACCGACAACACCGCCAACGACTGGGAGCGCGTCCGCCAAGCACTTGGC  
GATGACAAGATCTCCATCTTCGGACTGTCCTACGGAACCTACCTCGGATCGGTCTACGCC  
ACCCGCTACCCACAGCACACCGACAAGGTTGTCCTCGATTCCGCAATGGCGCCAGCCTG  
GCATGGAACGGCATCATGGCCTCCCAAGAACAGGGCTACAAAACTCCCTCAACGACTTC  
TTCACCTGGGTTGCAGAAAACAACGACACGTATGGCCTCGGCACTACCCCACTAGCCGTG  
TACCAAACTGGTCAAACAAGATCGTCGCCGAAACCGGAACCAACCAACCGTTGCTCCA  
CCACCAGCACAAAGTTGGCGATGTCCACACGATTCGCATGGGCGCGCCAAGCAGGCGCA  
GACATGATGACCGCCACCAACCAACCTCCGTGCAACTCCAGGGCCTTGCCACCCAGCTC  
CTAAACCCTGGATCCAACCAAGTCACTGAGCCCTCTGCTCAACGTCACCCGCGCCTACATT  
CCACAGCCATCAACCTGGCCCATGCTCGCAGGCGCCATCTCAGGGCAAACACCC

>RXA00982

TCTCACTAGCAGTCCAACCACTACTCCTCCAGGGAACCAGCGACCCACAAACCCATAC  
TGGACCCACAACGAGCTTGCCGACGCCATGAACGCCACGTGGTCACCGTCAACGGACCA  
GGACACGGCCAATCCATCGGCGGCACCAACCAAGCAATCAACGACATTGTTGTGGACTAC  
CTCCGCACCGGACACACCGACGCCACCTGGGTGAAGGCAACACACCCACCCCAATTACG  
GCTGGC

>RXA00982-downstream

TAATTGCTTTCCACTTAGTAGAT

>RXA00983-upstream

GTGAGAAAACAGTGGCTCAAATATCGACATCTTCTACTCACAGTTCAACCTGTCTGGCT  
GGAGGCCGCTGCATTGGTGTGACGCCGATGAAACGTCC

>RXA00983

GTGACTGCAGGTGAAACCACCACTATGAATGTCACGTTGACCAATCCTTTGACAACGCA  
ATTTTTGACCGAGCAGTCTCCCTTGAACGTCCCGAAGGATGGCAAGCTGAGGATGTTCTG  
GTGTCGATCCCATCTGGAGAATCTGTACAAATCCAGTCCAGGTACAGCACCGCTGGTA  
GCCGACAACGGTGAACCTCCAGTGGAGGTGTCCATTCTTGATGGAGCAGACCGCTACACG  
GGTCTGTCTCAATCTCACTGTTTCAGGGTGGGCAAGAACCTGCACCAACTTCAGTGAAGGTG  
AGCATTTCAAACCTCAAGGACACTTATGTAGCAGGGGAGAAGATCAGCATTAACCTTTCG  
GTCAACAACCCGTTTACGTTTACGTTTAAATTCGGTGCCAAGCCTGGGGGAAGGCGAGA  
TGGATGCCTGCAACCTACGCGGATTTGATCCAGAGCAGGGTACTCCCAACTGTCGTTAC  
AAGAATTTAGGCGGAATAAGAGCTATGACTGCACCACAACCTACCTATGAAGTCAGCGAT  
TTGGATGTAGAACGCGGATACGTGGATATTCCAACGGTATGGACGTTTACTAACTCCGCA  
GGCGAAACGGTATGGTCCAAAACGTTGATGTGCCTCGAGTTGAACCTCAATGGAACACAG  
GATGCTGTCACTGATGCAATCGTAACGGTTGATCCCATCAACCCAGTTCATTCCAACGGC  
CAGAGCCAACTGTTGAGGTCCAGGCTAATGTCACCTCAGAGGGAGATCTGCCAGCTGGA  
TCTAAGGTGGCCTTTTATCTAGATTTCATCGCCCATTTGATACCGCAGCTGTTGATGCGGA  
GGCATGCCCAGCATCTCGATTGATGTGGACAACATCGCAAGCGAGCAGCCTGAACGCACA  
TTTGAGGTTTCGCGCCGACTCGTCTGTTCCAGAAGATGCACCAGATCAATCGCGCTGAT  
GCCTTGGCACGTTTTACAGTCTGTCTGAACAAGTGCAGCAGAACTCCTTGGTGATCATG  
AATCATCCAGATGTGTTTTCTGATGGACAACAAAGACTATTGTCATCGCAGCGAAGGCG  
ACAGCACACGATGGATCGCCGGCGGCTATCGGTACTCTCATTGCATTTTCGCGTCAACGGT  
ATTGAGCGGGACGTGGTTCCAACCTAACGCGCAAGGAACAGCAAAGCTTCAGCTAGAC

>RXA00984

CAACGTGGTACCCAGTGCTCCTTGGGGAACTCCATGGATGAAAACAAAAATCGTGGA  
CTCAGCGATGGAACCTGATGAACAACAGTCGTTTCATCAGGAGCCGATACTTACCGCAAG

GTGTCTTATTCCACCGACGGCGGCGTCACTTGGACCGAGCCAACTCTTGATACCCAGCTG  
CCGGATCCTCGAACAATGCTTCCCTGATTTCGAGTATTCGACAGCACTGAGGGAAGT  
GCGCAGGCAAAAGTTCTGCTGTTCTCTCAACACTGCCACCAGAGTGCCCGCACCATAAGC  
ACCGTCCGCATGTCGTGATGATGGTCAGACCTGGCCGGTGTCTAAGGTGTTTGAACCA  
GGAGCAATCCAATATACCTCGATGGCAACGCTTCCCAACGGTGACATCGGCATGCTG

```
>RXA00984-downstream
TGAGAAAACAGTGGCTCAAATAT
```

>RXA01014  
GATGATCTGTGGCTCAACGAGTCCTTCGCCACTTGGTCCGCGGCAATTTCTCAGGCTGAG  
GAAACTGAATACAACACTGCATGGGTGACTTTCGCCAATGTGGAGAAGTCGTGGGCGTAC  
CAGCAGGATCAGCTGCCCTCCACCCACCCCGGTGTTCTCTGACGGATACGACATTGAGACT  
GTCGACCAGAAGCTTCGACGGCATCACCTACGCAAGAGGCGCCTCGGTGCTCAAGCAGCTG  
CAGGCATACGTTGGCCCTGAGGAATTCCTGGCAGGCGTACGCAGGCACCTTTGCCAACCA  
GCATGGGGCAACGCCAGCTTTGATGATCTGCTCGGCGCCCTCGAGCAGTCCTCCGGCCGC  
GACCTCTCCGACTGGGCAAACAGTGGCTCAAGACCACCGGCATCAACACCCTCGGCGCA  
AAGTTCAACCACCGACAACGGCAAATACACCTCCTTCTCCGTACCCAGACCGGCGCCGCG  
CCGGGTGCCGGTGAGCTGCGGACTCACCGCATCGCGGTGGGTCTTTATAAGCTTGTCGAC  
GGATCCCTCAACCGCTACGCACGAGTAGAACTTGACTGCAGTGGCGCGTCGACAAGCGTT  
GAAGAGATCGTTGGACTTGAGCAGGCTGACTTCGTGCTGGTCAACGATGATGATCTGACG  
TAGCGCTGCTGGATCTGGATGATGATTACGCAATTTTGTCTATCGACAATATTGATAAG  
TTCAGCGACCCTATGCTTCGCACGCTGGTGTGGTCCGCTGCGTGGGAGATGACTCGCGCT  
GGTCAGATGAAGGCTCGTGATTTTCATCGCGCTGGTTGCTCGTGGCGCTGCTGCGGAACT  
GAAATTGCTGTGCTGGAGCGCATTCTCGCGCAGGCTACCTCTGCGCTGAAGAGCTACGCC  
GACCCAGCGTGGGCAGAAGCAACTGGAATGACCTGCTGGCCGATGCTTTCTTCTGAGGGT  
GCTCGCTCCGCAGAACCCAGACTCCGACACTCAGTTGGCGTTTCATTAGGCTCTGGCAAAA  
GCAACGCTCAATGATGCTGCTGCCGATTACTCCGCGACATCTTGCCGGCAACGCTCGAA  
GGCCTGACCGCTGGATCTGACTGCGTTGGTGGGCACTGACTGCGTTATCGCCCGTGGT  
GACATCGAGGCTGTGCAAGATGCAATCGCCGCTGAACCTTTCCGCGCACTAATCCAGTGCC  
TCCTTCCTCGCATCACTTCGAGCCGGTGCCGCTGTGAACACTGAAGAAGTGAAGGCTGCT  
GCATACAAGCATGTCCCGGCAGTTGATAGTGGCCTATCCAACCTGGAGCTGCGCCACAAG  
ATTGAAGGCCTCACATTCCTGAGCTCTTTTGAACCTGCTGCAAGCCTACAACGAGCAGTAC  
TTCGAAATCCTTGATGATGTGTGGGCGAACTTCTCCGGCGAAATGGCACAGCAGATCGTC  
CTCGGACTGTTCCCTTCATGGAAACGTTTCCGAAGAGGGTCTCAAGCGTACCGACGAGTTT  
CTTGATGGCGAACATGTCGAGGCATCAAGCGAATTGTTTCCGAATCCCTCGACCGCACT  
GCCCGTGCTCTGCGCAAC

```
>RXA01018-upstream
TCTTAAAGTTTTCTAGCAATCCACACTAGGCGGAACTATCGTGGTGTCATTGCGCACCT
TCTAAGGGTAGCGCCCCCTCAAATTTCAAGGAGCATTAA
```

>RXA01018  
TTGACGTCCACTAATCTCACCCGACAGGAAGCTTCGGATCGTTCGAGGTTACTGAGTGTGTA  
GAAAACTATGACATTGCACTTGATCTCAACAACGGTGATGAGTTTTTTAGTTCCTCCACC  
GTTGTGAGCTTCACTGTCAGGAAGGCTGGCGATACCTTTATTGATCTCCGCGCAGCAAGC  
GTTGAGGAGGTTTCGCCTGGACAATGTGTCCATCAAAGATGAGGCTCTAACCCCTTGGCAAG  
AACGGCTACGACGAGACGTTCCGCATCGCCCTGAAGGCTCTTACTCCCGCGCGCACACC  
TTGCGGGTAACGGCGTCTATCCCTATTTCCCGCAGCGGTGAAGGCCTGCACCGCATGGTG  
GATCCAGCAGACAATGAGGTGTATTTGTACACCCAGTTTGAGACCGCCGATGCCAAGCGT  
ATGTTTCGCGTGTTTCGATCAGCCAGACCTCAAGGCTACCTATGATCTGAACATCAAACT  
CCTAAGGGTTTGAAGATCATTTCCAACCTCTGAGCAGCAGGTTTCCACTCAGCACACTGAT  
TACGATACCCACATTTCCCGAGTGGACTATCCCTCTCCACCTACCTGATTGCGGTGTGC  
GCGGGTCGTTACCACGAGGTGTGCGATGTCTGGAAGGGTACGCTCACCCACCATGCAGAA  
ACACCTGCCGATCAGCCAACTGAGCTGACTGTTCCGCTTGCTCTCTACTGCCGCAGTTCT  
TTGGCTAAAGATCTTGATGCGGTGCGTCTGTTTACCGAAACGAAGCAGGGCTTTGATTGG  
TACCACCGCAACTTCGGTGTGGCGTACCCATTCGGCAAGTACGATCAGATCTTCGTCCTT  
GAATTTAATGCTGGCGCGATGGAG

>RXA01022

CACTTTTCCGATGGCAGCTTGTATGCCACCGCTGATGTGATTTCCCTGTGCTGCATGGT  
CGTTTTGGTGAAGACGGCACTGTGCAGGGTCTGTTTGCCTGTCTGATATTCGGTCTGTT  
GGCCAGGTGTGCTGGCCTCTGCTGCGGGAATGGACAAGGAATACACTAAGAAGCTCATG  
GCAGCGGAAGGGCTGCCGCTTGGCCGTGAGGTGATTCTACGTGATCGTACCGAGCTGACC  
GAGGCAGAAAAGAACCTGCTGGGCCTGCCTGTATTTGTGAAGCCTGCGCGTGGTGGCTCA  
TCGATTGGTATCTCTCGTGTACTGCGTGGGAGGATTTTAATAAGGCTGTGGGGCTTGCT  
CGTGCCCATGATGAGAAGGTCATTGTGGAATCAGAGATCGTTGGCTCTGAGGTGGAGTGT  
GGCGTGTGTCAGTATCCAGACGGTCGTATCGTGGCGTCTGTTTCTGCGTTGCTGTCTGGC  
ACCGAATCAGGCGCTGGTGGATTCTATGACTTTGATACCAAGTACTTGGACAACGTTGTT  
ACTGCAGAGATCCCAGCACCGCTTGATGAGAAGACCACGGAAGTATCCAGTCTTTGGCT  
GTGGAATCTTTCCAGGCTCTTGCCTGTGAAGGCTTGCTCGCGTGGACTTCTTTGTTACC  
GCCAATGGTCTGTGCTCAATGAGATCAACACCATGCCAGGATTTACCCCATTTCCATG  
TACCCACAGATGTTCACTGCATCAGGCGTGGCTTATGAGGAATTGTTGGATGTGTTGGT  
CAGCAGGCATTGCACCGCGACAAC

>RXA01022-downstream

TAGCATCAATAAAAACAGCCCC

>RXA01055-upstream

AGAATGAAGTGGGTGGGTTCCCCGGCCCGGTCACTCCGGATGGGCGTCCGTTGATTGGGCA  
GACCAAGGCGGAGAACATTTACGTTGCCGGTGGTCACGGC

>RXA01055

ATGTGGGGTGTGGTGTGCTGGGCCCTGCCACCGGTAAGTATTTGGCGGAGCTGATGGCTACG  
GGCAACACCAACCCGATCATCAAGCCGTTTCGATCCGCTGCGT

>RXA01055-downstream

TAACTGCCCAATAATTGGTTGAA

>RXA01056-upstream

CAAGAAATAACCCCATAGGAATTTCCAAACCAATACATTTAAGTACGAACTCATGAATAC  
TGGGGGCACTAGGAGTCCACCCACCCCTCAGGAGGGTTTC

>RXA01056

ATGAGTTCGTCTGGAAAAGTCATTGTTGTTGGAGCCGGCATAGTGGGTCTTGCCACCGCC  
TGGCATTACAGGAGCACGGGTTTCGAGGTGAGCGTCTTTGATCGGGATGGTGTGCTGCA  
GGTCTTCTGCTGGGGTAATGCTGGTTGGTTAGCGCCGGCGAAAATATTCGTTGTGCGAG  
CCGGGGCTGTGGACGTATGGTCCGAAAGAGCTGTTCAATCCGGTGTGCGCGATGCATATG  
CCATTCGTGTGGATCCCAACTGTGGCTTTTCTTGGCGCAATTTATGGCGCAGGCTTTT  
CAACGCAAGTGGGATTCCACGATGGCGGACCTCACGGAGATCGATAAGGTGCGGCTCGAA  
GCTTTTGTGTAAGTGTGATCGGTGGCGTGGAAAGGCCTCACCCATGAAGGTCCATTTGTT  
ATTGGTTTTGAGGAAGAGCGCCAATCGGCGGGTTTCCGTAAGGAAATTGATGGCGTGAGC  
AGGCACGGCCAGAAAGTGGAGATGTCTCGACTGGAGAATCCACAAGAGTTGGCGCCGATG  
CTGAATGAGCAAATTCAGGTGGCTTACCGTTTGAAGGCCAGCGTTTCATCGAGCCGGGT  
CCATACGTGCAGTCATTGGCGGATGCTGTGGTGAAGCGTGGTGGCGTGATCCGCGCCGGG  
GCAGAAGTTGTGCATGTGGCGAAGGGTGATCGTCCCGCGGTCAATTTGGCGGATGGTAGC  
CGTGAAGAAGCGGACAAGGTGGTTGTGGCAACGGGTGCCTGGCTGCCGGGTCTAACGCGT  
GAATACGGTGTGAAACTCTTGTTCAGGCTGGTGTGGCTATTCCCTTCTCTGTGGCAACG  
GATATTCTGCCAAGCATTTCTGTGTACCTTCCCCACCACCGGCATGGCCTGCACGCCGTA

>RXA01056-downstream

TGAGGGCCGTTTCCGCATTGCGG

>RXA01057-upstream

AACTAATGGGCAGGCTGAGCAGCTTAAACAACACATCGATAGCCTCCAACCGCGGGGCTA  
TACGCCGATTGGTGAATCCCTGCGCAAGGCTGCAGCAGAA

>RXA01057

TTGCCTGAAGGCCAATCTGGCACCATCGTATTGGTCTCTGATGGCATTGCAACGTGTACG  
CCCCCTCCAGTGTGTGAGGTTGCTGCAGAACTAGCCGACCAGGGTGTGATCTGGTGATT  
AACACTGTTGGATTCAACGTCGATGAGTCTGCTCGCGCGGAACTGGAGTGCATTGCGCAG  
GCTGGAAACGGTACTTATGCAGATGCGAGCGATGCGGATTGCTTGTGGCAGAACTGAAG  
CGAGCTGCCACCCGACGGCAGTGGGCTATGAATCAGACCTGGAACAAATCGATGGCAAC  
AGCAGCCAAACAAGCCTGACCCCAATTCCAGATGATGTGGAATTGTTCAAAGCCGATCTT  
CCAGCACTAGATAATAAAGACGGCGAAGTAACTCAGTACTGGTCCATTCCCCGTTGAAGAT  
TATGAACGTGTGCAGGTAACCACTCGTATGTTGCGCCAGTGACTTTTGGACTCGGGAAC  
GACTACCTGAGCATTAGGAATGAAGTCTTTTCGGAGATGAACAAGATCAAACCTGTCAT  
CGTTCGATCAGCAATGATCAAATTCTTGATAATTACGGTGCAGCGGCTTTGGTTGCCAGT  
GTGGAGTCAGATGTGATTGGAGATAAGTGCAGATACCGATGAAGTGGTTCTCGCAATCACC  
AGAAGCCAGCCTTTCAATTGGGAAGAAGAATTACCTGTTGAGATCGTGGTAAAGCGCCTT  
AATCAGCGCGGATACGTCAGGGCTTCCACTCGGTGATCAACAGCGTGAAATCCCAGATCTC  
GACGTGGCCGCGAGTACAAACATGGGCACCCACCACTGGCGGATCTTGGTTTACCAACGCT  
ACGGAGCTAACTCCAGGTGAAGGTGTTGAAGCAGAGATCGTACCTGGTGAAAATCACGTT  
TATCGCCTGCCTATGGCAACTGGTCAGCAGCTGCATGGCTTTGTGGAAGTTGTAGAAAAC  
ACGGCACCAGATGATCCTGGCGTGACGGACAAATTGGGTGTTGCAGTGTATTCGCCAACA  
CGACAGGACGCCGGAGTTGATATGTGGACGGATATCGCTCCACGTGAGGGCACCAGTGAG  
TATTTTGCAGCGCCAGTTGCACTGACTTATCTGAATATGTTCCCTGCTGAAGGCGGATTT  
GGCACTACTTCTAAGGCCACCAGCACGTTTACGTTTGAAGGCGATTACTACCTCGTTGTG  
CACTATGACGATCTCAGTGGCAGTACAATCAGAGATGCCAGCAACCAGCAGTCTTTTCCC  
CTTCGTTATCGCTTAGCAGCGGATGCTTTTGGTGATGCAGAGCCAGGCCAGTGTGTTGAA  
AAGGTTTCTGCAACCACCTCAGAATCCTCTAGCCCAAGCACTCAACCAGATGAGCCAGCT  
CAAAATACCCGCAACTGAGGAAAGCAGCACTGGAATCTCCCCGCTCATTGTTGGCGCTATC  
GTCGCACTCATTTTGGCGTTCGCTGCGTTTGCCAGCTGGCTAGTTTGAAGGCCGCAAG  
AAA

>RXA01057-downstream

TAACCCCATAGGAATTTCCAAAC

>RXA01059-upstream

AATTATTAGCTTTCCAATACAAAATTTAAATCCCAGAGCGATCTGCCCCACACTTACTTG  
ATGCGGGAACAAATTTGAAGGTTTTTCAGTTGCTATAGGT

>RXA01059

ATGACTACAGTTACTCAAGACCTTCTAGCACTTGACGAAGACGCACAGAACCTCCTTTTC  
CGTGAGGCTCGCACCGCAAATGCTTTCACTGATGAACCAATCTCTGACGAGCAGATCGAA  
GCAATCTTCGACCTAGTTAAGTGGGCACCAACCGCAATGAACTCCCAGCCTCTGCGCGTG  
GTAATTGTTGCTTCCGAAGAAGCCAAAGCTCGCCTCGTGCCATTGATGGCAGAAGGCAAC  
CAGGCCAAGGTTGCTGCAGCTCCTGCGGTGCGACTTCTTGACGCCGACATCGACTTCCAC  
GAAGAAATGCCCAAGCTCTTCCCACCTTTCCCAGGCGCACGCGACATGTTTGAAGCCGAT  
GAAGCTTACGTGCTTCCCTCCGAGAACTCAATGCTGGCCTTCAGATCGGATACGCCATC  
ATCGGTATCCGCGCAGCAGGTCTCGCCGCTGGCCCAATGACCGGCATGGATGCAGACGCT  
ATCTCCAAGGAGTTCTTCCCAGACGGCCGCCACCGCTTCTGGTTGCCATCAACATGGGT  
AAGCCAGCTGACAATGCTTGGTACGACCGCCTGCCACGCCTTGAGCAGGACGAAGTTGTC  
GAAACCCCTC

>RXA01059-downstream

TAGAAACCACTCTAGAAATAGCT

>RXA01073-upstream

TAACCGACTCCAGCACTAAACTCCAAACCCTTGGCCCGCACCGCCAAAGTTTAGCGCGCC  
CCAAGACACCACCGCGCCATGTTTGCTAGGATTAGGTAC

>RXA01073

ATGACAAACACTCAAACCGAGATCATTAAATGAACTAAAGGTGAGCCCAGCAATCGACGTG  
GCCAAGGAAGTTGAATTCCGTGTGCAGTTCCTCGTCGATTACCTGCGGGCTTCCCATACA

AAAGGCTTTGTTCTTGGTATTTTCAGGTGGCCAGGATTCCACTCTTGCGGGACGACTCACG  
CAGCTGGCAGTAGAGCGCATTTCGTGCGGAAGAAAACAGCACGGATTATGTCTTCTACGCA  
GTTTCGCTCCCCTACGCGATCCAGGCAGATGAGGACGATGCGCAAGTTGCATTGGAATTC  
ATCGCACCTGACAAGAGCGTGACCGTCAACGTTAAAGACGCAACGGACGCCACCGAAGCA  
ACTGTTGCAGCTGCTTTGGAACCTCCTGAGCTGACCGACTTCAATCGGGGCAATATTAAA  
GCTCGCCAACGCATGGTTGCCCAGTACGCAATCGCAGGCCAGTTGGGCTTGCTGGTTATT  
GGCACTGATCACGCGGCTGAAAACGTCACGGGGTTCTTCACCAAATTCGGTGATGGCGCA  
GCTGACCTGCTTCTTTGGCAGGTTTGAGCAAGCGTCAAGGAGCTGCCATTCTGGAGCAC  
CTGGGTGCACCTTCAAGCACGTGGACCAAGGTTCTTACCGCTGATTGGAAGAGGATCGC  
CCAGCGTTGCCAGATGAGGAAGCACTTGGTGTGTCGTATGCGGACATCGATAATTACCTG  
GAAAACAAGCCCGATGTCAGTGAAAAAGCCCAGCAGCGCATTGAGCACCTGTGGAAGGTG  
GGCCAGCACAAAGCGCCACCTCCCTGCTACCCCGCAGGAAAATTGGTGGCGT

>RXA01073-downstream  
TAATCCAACAGTTTGAGTGTGCG

>RXA01082-upstream  
GGCCTTGCTTGCGTTAGTTGCAGTGCTTCCCTGAATATGCTTCTGAAACGGTTGTGAGCA  
CACTTATCAAACATCGGCGGCGAATTAAGAAGGTGAACAG

>RXA01082  
TTGACGCAGTGGGGTAATTCGAATGTTGTGGAGGACTATCTCACAGCACTTTTCCGTGCA  
GAAGAATGGGATGAGGAACCAACAACAGGAAAACCTCGCTGAAGTAATTGGAGTTACCGCA  
TCAACGGTGTCGGCGACGCTCAAAAACTCAACCCTGAGGGCTTCGTCAATTACCGTCCC  
TACGGGGACATCGAGCTGACGCCCCGAGGTCGAGACATCGCCATCAACGTGATCAGGCGG  
CGCCGGATCATTGAGACCTATCTGTCTGAGAAGCTTGGATTAGGCGCTCATGAACACAC  
GGCGAGGCAGATTTATTAGAGCACGCACTGTCTCCACTGGTGTGGAGAAGATGTTTCAG  
GCAGTGGGCTATCCAACGTTGGATCCTCACGGGGATCCCATCCCCACCGAATCTGGGGAG  
ATGACCATCAATGATGGACTCATGCTTTTGGGACTAAAAGCTGGCGCATCTGCCACGGTT  
ACACGTGTTAGGGACGGAAACCCATCAGTGGTTCGGTACCTCACTGGAGTGGGAATTACC  
GTGGGCACAACGGTCACGGTCGTTGAAGCTCTTAGCGATATTGCCACACTGCGCCTGCAG  
ATCGGGGAAATGTTTCAAGACATTCCCCTTGCACTGGCAAACGCAGTGGCGGTATCACGT

>RXA01082-downstream  
TAGTTCAGCGTGCCAGCGCGCT

>RXA01090-upstream  
GCCGGTTTGGGCTGGTTGGAGCTCTAGATCGTAAGTGGTGTGCTACCCATGACGTACCAT  
TAACCACGAACGTTTAAAGAAGCCACGAAGGAGCCTGAC

>RXA01090  
ATGGCGTTACCACTACCCAGCAAGAGCGCTCGAGCACTTGTTACTGGGGCAAGCCAAGGC  
ATTGGCCTCGCCATCGCCAAAGATTTGGCGCGGTATGGGCACAACCTCATTTTGGTTGCT  
CGCCGCGAGGATGTCTTCAAAGAGATCGCCGAGATCTAGAGAAGAAGCACGGCGTGATC  
GTTGAGGTCCGCCCCGGTGGATTTGAGTGATGAGCCAGCCGCAAGGTGTTGATCGATGAG  
ATCAAGACAAGGGAAATCAACATCATTAATCTGCTGGCATCGGCAAGCTTTGGGCC  
GTTCAAGGACCA

>RXA01090-downstream  
TGATTGGTCTTATGAGACTGCCA

>RXA01113  
GGCGATATTTGGGAACGTCCAGGCCTTGATCACACTCAGCGTCGCTGCTCACCATCGCG  
ATTTTGACCGCGGTGGGCAATGACGGCGAGTTGGACATGCACATTTCGTGCTGCTCTGCGC  
GCTGGCGTGGATCAGGAAACCATCGGCGAGGTATCTTGCACACTGCGGTGTATGCGGGT  
GTGCCGAACCTCAACCATGGTTTCAAGCTGCTGAACAACGCTGTGTCAGACCTTCAG

>RXA01113-downstream  
TAATTCTCGAAGCTCTCCACGGG



>RXA01117-upstream

TACGAAATCTGGCGATTGTTTCGACCATCCCATCAACTCCTCTTTTTGTTTCGCATTGCGAA  
CCCTTGTGCATATGATGAACATTACGTTAGCATGTCTCAC

>RXA01117

ATGATTAACAAGAGCATTTCTTCCACTGCTGAAGCGGTGGCCGATATCCCAGACGGTGCG  
TCCATCGCCGTCGGTGGTTTTCGGCCCTCGTGGGCATCCCCACTGCATTGATCCTCGCCCTC  
CGCGAACAAGGCGCAGGCGATCTGACCATCATTTCCAACAACCTAGGCACCGACGGTTTT  
GGCCTCGGACTGTTGCTTTTGGATAAGAAGATCTCCAAGTCCATCGGCTCCTACCTTGGC  
TCCAACAAGGAATATGCACGCCAGTACCTGGAAGGAGAACTCACCGTCGAGTTCACCCCG  
CAGGGCACCTTGGCTGAACGCCCTCCGCGCAGGTGGCGCCGGCATCCCTGCGTTTTACACC  
ACCGCAGGCGTGGGCACCCAGGTTCGAGAAAGGCGGACTCCCACAGCGCTACAACACCGAC  
GGCACCGTCGCGGTGGTGTCCCAGCCAAAGGAAACCCGCGAATTCAACGGCCAGCTCTAC  
GTCATGGAAGAGGGCATCCGCGCCGATTACGCACTCGTGCACGCACACAAAGCAGATCGC  
TTTGGCAACCTGGTGTTCGCAAGACCGCGCAGAATTCAACCCAGATGCAGCAATGAGC  
GGCAAGATCACCATTTGCTCAGGTCGAGCACTTTGTAGACGAACTCCACCCAGATGAGATC  
GATCTGCCAGGAATTTACGTCAACCGCGTCGTCCACGTTGGACCGCAGGAAACCGGAATC  
GAAAACAGGACGGTGTCTAAC

>RXA01117-downstream

TAATGACTTGGGATCATAACCAA

>RXA01120-upstream

ACAGGTAAAGCGCTAAGATGGAACAACCCATTGCCAATATTGTTGGTTAGAGTTGTACGC  
AGTAAATCTTTTCAATCGTGGAAGCGGGTCTCACAGTCTA

>RXA01120

ATGGCACGTATGCAGGAAAGCGCCGATCTGCTCAAATGTTTCCTTCTGCGGAAAGAGCCAA  
AAGCAGGTAAAAAACTCATCGCGGGTGGCGCCGTATATATCTGTGATGAGTGCATTGAG  
CTGTGCAACGAGATTATTGAAGAAGAACTCGGTCAAGCTCAACACGACGAGCAGGAGCGC  
AACGAGCTCCCCAAGCCGTCGGAGATTTACGCTTCCCTTGATACTTATGTATCGGGCAG  
GACCCAGCAAAAACGTATCCTGTCGGTTGCGGTGTACAACCATTACAAGCGTCTCCGCGCA  
TCGGAAACCATCGGTGCTCGCAGGAATGACGAGCCTGAAACCGAACTGGTTAAGTCCAAT  
ATTTTGATGCTCGGCCCCACTGGCTCCGGCAAGACTTTCTTGCCAGACTTTGGCAAAG  
CTGCTGGATGTTCTTTTGTATATCGCGGATGCCACCTCACTGACCGAGGCTGGTTATGTG  
GGCGAGGATGTGGAAAACATCTTGCTCAAGCTGCTTCAGGCTGCTGATTTTGATGTGGAA  
CGTGACAGCGCGGCATCATTTACATCGATGAAGTGGACAAGATTTCCCGCAAGTCTGAA  
AACCCATCGATCACTCGCGATGTTTCCGGTGAAGGCGTGCAGCAGGCACTGCTGAAAATT  
TTGGAAGGCACTGTGCGCGCAATCCACCGCAGGGAGGACGCAAGCACCCCAACCAGGAT  
TTCATCCAGCTGGATACCAACCAATTTTGTTCATCGTTGCTGGTGCCTTCTCTGGTCTG  
GAGAAGGTTCATCGCGGACCGCAATGGCAAGAAAGGCTTGGGCTTCGGTGTGGAGGTCTCT  
TCCAAGAAGGAAGAAGCCAAACATTGTGGATATCTTCAAGGATGTCCTCCCTGAGGACCTG  
GTGAAGTTTGGTCTCATCCCAGAATTCAATTGGGCGTCTGCCAGTCGTTGCCACCGTATCC  
AACCTGGATCAGAAATCTCTGGTCAAGGTTCTCACGGAGCCTCGTAACTCATTTGGTGAAG  
CAGTATCGACGTCTGTTTGAATGGATGACGCTGTGTTGACCTTTACTGATGATGCTTTG  
GAGGAGATCGCTAATCAGGCACTCGAGCGCAAACTGGCGCCCGTGGCCTGCGCGCGATC  
ATGGAAGAGATCCTGGTTCCGATCATGTATGACCTCCAGACCGTAAAGACGTTGGCGAA  
GTCATCATCAACGGTGCCGTTGCCGTTGGCGAAGCCGAACAGAGATGTTGGAAGCTGTC  
GCAGAAGAAAAGACCGCG

>RXA01120-downstream

TAGTTGGCAGGAGTTATCACCGG

>RXA01224-upstream

TTGGCGGCGGGAAGTTCAAGGCTTGGGGGCAAACAGTGCTTGGATTTTAGACAAAAAACTC  
ACGGAAGTCATCCTATGGCAGGCGCGCCTAGGATGGTGCC

>RXA01224

ATGAGCATCCTTGACACGTTGAAACTCCCGTGATTGTGCCCCGATGGCTGGCGGCCCCG  
TCCACTCCCGCGTTGGTCAATGCAGCAGCAGAGGCAGGTTCCCTCGGGTTCTTGGCTGGT  
GGCGTCATGCCTCTTGAGCAGCTGAAACAGGAATTGTGAGAGGTAAAAGGCGTCTTTGGC  
GTCAACCTGTTTCGCCCCGACGCGATGCGCCTAAGCCTTCAGACATTGATGAGCTGGCG  
GGATTGTTGTCTCGGCGTTTCGGCAATTTGGCCTCGATGAGCCGACGGTGCCTACGCCG  
GATTTGAGCAATGGGTGGGAGGCTAAATTTGAGGCCGTTCTTGCCGCTAAGCCCGCGTT  
TTTTCTGCACCTTTGGTATTTTTAGCGCTGAAGAATTCGCCCCGGATCAAAGCCACCGGA  
ATTGAGGCGTGGGTGACGGTGACCAATCCGGAGGACGCGCTGGCTGCGCAGAAAGCTGGC  
GCCAACGCGCTTGTCGTGCAAGGCCCGGAGGCGGGTGGGCACCGCTCTACCTGGTCCATT  
GAAGTGGAGCCGGACGAGCGCGACCTGAAACCCCTCCTCGCAGCTGTCAAACAAGCGGGC  
GTTTACCTCCCGCTCATCGCAGCCGGCGGCCCTTTCAACCTCCGACAGCTGGCAGCAATT  
TTAGAAGCCGGCGCCAGCGCTGCCTCCTGTGGTTCCGCCTTTTTGCTTAGCGACGAAGCC  
GGCACCAGCTCACTTAACCGCGAGATCTTGGACGCCGCCCCAGCACTTGGTTTGGAATCG  
GTGTCTATCTCGCGCATTTTCGGGCGCTTATGCCAGGGGAGTGGAAACCAGGTTACCCCGT  
TCGAACGAGGGGTACCCCGTTGTACCCATACCTCAACCAATGATCACATCTTTACGT  
AAGGTGGCGGGAAGTGCAGGGAACCTGGGATTACGCCTACTGCCTGGTAGGAGTCGGCCTG  
GAATCGATTGCGAAGGGTAGTGCAAAGCAGATACTGGAATCATTAACACCTTCCGCTTTG  
GGC

>RXA01224-downstream

TAATGTTGGGGGAGTGCTTTCA

>RXA01126

TCCGAGAATCACTGCCACCAACCCTGTTCTGAAGCCACCAACAGCTGTCACCGGACCA  
GAGTCCCCAATCCGAATCCCTTCCCTTTGCCACCAAGGTGGAATTCGAAGGTGAGCTCGCA  
GTAGTTATCGGCAAGCCCTGCAAGAACGTCAAGGCTGATGACTGGAAGTCTGTCGTTTTG  
GGCTTACCATCATCAACGACGTCTCCTCCCGTGACCTCCAGTTCGCTGACGGCCAGTGG  
GCACGCGCTAAGGGCATTGACACCTTCGGCCCCATCGGACCATGGATTGAAACTGACATC  
AACTCCATCGACTTGGACAACCTGCCCATCAAGGCACGCCTCACCCACGACGGCGAAACC  
CAATTGAAGCAGGACTCCAACCTCAACCAGATGATCATGAAGATGGGCGAAATTATCGAG  
TTCATCACCGCCTCCATGACCTTGCTCCCAGGCGACGTTATTGCAACCGGTTCTCCAGCA  
GGACCCGAAGCAATGGTTGACGGCGACTACATCGAAATCGAAATTCAGGCATCGGCAAG  
CTGGGCAACCCAGTTGTGGACGCC

>RXA01126-downstream

TAAAATGGATCACCACCAT

>RXA01147-upstream

ATAATGATCACCTACTTTAACGGCTTCAGGTGACATTGTGGATTTCGATTGTGGATTTCGG  
GGGCCCCGCGCTGTTTCCAAGAATTTGGCTACCCTTGTTCT

>RXA01147

ATGCATGTAAGTACGATTTCTTAAGTTTTATTGCCCTAAGCCCAAGTTCCTATCACGCG  
GCCGCGGCGGTGGAGCGCAGGTTGCTCCATGAGGGGTTTCATTTCGTCAGGAAGATACCGAT  
GAATGGGATGCCCCGCCCTGGTGGGCATGTGACGGTGCGTGGGGGAGCAGTAGTGGCGTGG  
TGGGTGCCTGAGGATGCTTCGCCAGATTCCGGGTTCCGCATCATTTGGGTCACATACTGAT  
TCACCGGGTTTCAAGTTAAAGCCCCGTGGGGATCTTTCTCACACGGTTGGCAGCAGGCC  
GGCGTCGAGGTTTACGGCGGACCGATCCTGCCAAGCTGGCTGGATCGCGAGCTGGCCTTA  
GCAGCCGCAATTGTGCTTGCCGACGGTCCGTCAAGCTTGTC AACACCGGCCGATCTTG  
CGCATCCCGCACGTGGCTATTCTTTGGACCGTACTGTTAATTCCCAACTCACCTTAAT  
CCACAGCGTCACCTGCAGCCTGTGTTTGCTGTTGGTGAGCCGACGTATCAATTCTGGAT  
GTCATTGCTGGTGCTGCGGTAGTGGATCCTGCAGATATTGTGAGCCATGATCTGATCACG  
GTGGCTACCCAAGATGCTGAAGTATTTGGCGCACATGGGGATTCTTGCGCTCTGGTTCG  
CTGGATAACCTGAGCAGCGTGATCCATCCATGACTGCATTGATTGCGGCTTCGCAATCT  
GACGATACTGGTTTCGGATATTTTGGTTCTTGCTGCATTTCGATCATGAAGAAGTGGGAAGT  
AATTCCACCTCGGGTGCCGGGGGCCCCCTGTTGGAGGATGTGCTCAACCGTACTGCTCGT  
CGGTTGGGTGAGATGAAGATGAGCGACCGCGGATGTTTAACCGTTCACCATGGTCTCA

GCTGACGCGGCACACTCCATTACCCCCAACTTCCCCGAGAAGCATGATCAAGCTAATTAC  
CCCATCATTGGTAAAGGTCTGTATTGAAGGTCAACGCCAACCAGCGCTACACCTCCGAT  
GCAGTCACTTCAGGCATGTGGATCAGGGCATGTGAGATTGCCGGTGTGCCACACCAGGTG  
TTTGGCCGGCAACAACGATGTGCCGTGTGGTTCCACCATCGGCCCCGATCAGTGGGACTCGC  
CTGGGTATCGATTCTGTGATGTGCGTATTCCATTGCTGTCCATGCACTCCGCACGCCAA  
ATGGCCGGAGTGAAGGATCTGATGTGGTTTGAACAAGCCCTGGAAGCCTATCTGGTAAAT

>RXA01147-downstream  
TAACGCCGAGTTCAATCAAGACA

>RXA01151-upstream  
CCAGGCGTTTGGCTGATGGCGTGGAGCCTCCTCGTCCGCAGCGTAAGGCACGTGATAAA  
AAGACCTAGTTGGAGGGCGTAAAGGGTTAGAGTGGTGACC

>RXA01151  
ATGAGTTCACCAACTGATTCTTCGCCCTCTAATTCTTTTAGCGACTTCAACCGGGAGGAA  
CAGTCCCGGTTATCTGATGAGGTGCGCCAGCTCAAGCGCACCAACTCTGATCTTGGGGCA  
CGTAATGCCAAGCTCGCGGAGATGCTGAAGTCGTCTCGGGATAAATTGTCTGTGCTGTTT  
TCTCAGTTGGAGGATATGGCTCAGCCGCCATCGGTGTATGGCACTTCTTGAAACCGCG  
AAAGACGGTTCTAATGCGGAGATCTTTGCTGGTGGACGTGCGATGCGTGTGGCTGTTTCT  
CCTATGCTGTGTGCCGCGGATTTGATGCCGGGTGTGCAGGTTTCGTTTGGGTGAAGGCAAT  
CAAGTTCTTGAGGCCTGTGATTTTGAACAAACCGGTGAATTAGCCACGTTGATGGAAATG  
ATTGGCCGGGATCGTGCTTTGGTTTCAGATCGCTCGGGGGAGGAGCGCGTCGTCAGCTT  
GCTGGTCCGTTGATGGATCGCACCGCAAAGCTGCCGCGCCCCGGTGACACCCTGCTTGT  
GACCGCAAAGCGGGCTACGCTTTTGAGGCGATTGCCAAGACGGAATTTTCGAGGCTTGCG  
CTGGAAGAGGCGCCAGATGTGTCTTATCAGGATATTGGTGGCTTGGATGATCAGATTGAA  
TTGATTCAAGATGCCGTTGAGCTGCCATTTTTGCACCCGGAGATGTACCGCGCCTACAAC  
CTGCATCCACCAAAGGGCGTGCTGCTGTACGGCCCTCCCGGCTGTGGAAAGACGCTGATT  
GCTAAGGCTGTGGCTAATTCTTTGGCCAACCGCATCGGTGAGACTGGCACCTCGTACTTC  
ATCAACGTCAAGGGGCCA

>RXA01571-upstream  
AAACTACCTGCTGAGAGCTTTGTAATTTACGGTGTGGTTGTGGAGGGGTGCGTCGAGAAG  
CGCTCGTAGGCGCTTTTGATTTTTCGGTAGGCTAACTGGG

>RXA01571  
GTGAGTATCTCAGTAAAAGCACTACAAAAGTCCGGCCCCAGAAGCACCTTTCGAGGTCAAG  
ATCATTGAACGCCGTGACCCACGCGCAGATGATGTGGTTATTGATATCAAAGCTGCGGGC  
ATCTGCCACAGCGATATCCACACCATCCGCAACGAATGGGGCGAGGCGCACTTCCCGCTC  
ACCGTCGGCCACGAAATCGCAGGCGTTGTCTCTGCGGTTGGATCCGATGTAACCAAATGG  
AAAGTCGGCGACCGGTGGGCGTCCGCTGCCTCGTTAACTCCTGCGGCGAATGCCAACAG  
TGCGTCGCAGGATTTGAAAACAACCTGCCTTCGCGGAAACGTCGGAACCTACAACCTAAC  
GACGTCGACGGCACCATCACCCAAGGCGGCTACGCTGAAAAGGTAGTGGTCAACGAACGT  
TTCCTGTGCAGCATCCCAGAGGAACCTTAACCTTCGATGTGCGAGCACCACTGCTGTGCGCA  
GGCATCACCACTACTCCCCAATCGCTCGCTGGAACGTTAAAGAAGGCGACAAAGTAGCA  
GTCATGGGCCCTCGGCGGACTCGGACACATGGGTGTCCAGATCGCTGCAGCCAAGGGTGC

>RXA01571-downstream  
TGAGGTTACCGTTCTGTCCCGTT

>RXA01161-upstream  
TTTTTCGTGATCAACAATCCGCTGGCATAGCGTCCAGCAGATTTGATTCTGACAGTGTGG  
TTTGATCGCACACCTGCCTAGGCTACTAGGGTTGGAGACT

>RXA01161  
ATGAGTGATCCTTCAACAAACAATTTCCCCACATCGGTATATGCACAGCGTCTTGCGGAT  
GCACAAGAAGGCGCACGCAAGGCTGGCTTGAACGGTTTGATCATCGGTACAGGCGCAGAA  
CTTGCGTATCTAACCAGGCGAGCTGGATCTCCACCCATGAGCGTCTAACCAGCTTTGGTGATC  
CCAGCGAAGGAACCGCAACCATTTGTTCTTCCCGCTGTAGACCGCGGAGACTTAGCACTG

TCTGCTATTCCAGGACTAGACATCAATGTGGCCGGATGGGTTGATGGCGATAATGCCCAT  
GAGTTGGCCGTAGATGCTCTCGGTGTTTCAGAGTTCGAAGCATTGGGTATTGGTTCCTCC  
ATCACGGCAGATCACCTGATTCCCTATCCAGAACCTGGTGGGCTCCACCTGCCGCATGGAG  
TTGGCAGTTCAAGTGCTGAAAGAATTGTTTGTCTCTAAAGACGAAGCAGAGATCGAGCAG  
CTTCGCGGGCGCAGGTGCAGCCATTGACCGTGTCCACGCCAAAGTCCCGGAGCTTCTTCAA  
GACGGACGCACCGAAGCAGAGGTTGCAGCACAGCTCAACGATCTCATCTTGGAAGAGCAC  
TCTGAGGTGGACTTCGTGATTGTGGGATCCGCTGAAAACGGCGCGAACCCTCACCACGGT  
TTCTCTGACCGAGTCCCTCCGCAATGGCGACATCGTGGTGGTTGATATAGGAGGCACCTTC  
GGCCCTGGTTACCACTCTGACTGCACACGCACCTACATTGTGGGCGGAAACCCTGACGAT  
GCGGATCCAGAGTTCGCTAAGTTCTACCAAGTGCTCTACGAAGCACAGCTCGCAGCCGTT  
GCGCATGTTCCGCCCTGGCGTTACTGCAGAATCAGTGGACGCTGTTGCTCGCGATCACATT  
GCTGCGGCTGGATACGGCGAATACTTCATTACCGCACAGGACACGGCATTGGTCTATCC  
ACCCATGAGGAGCCATTTCATCATGGCGGGTAACCTCACTCGTGTGGAAGCCGGAATGGCC  
TTTTCCATTGAGCCTGGCATCTACATTGAAGGAATCCACGGAGCGCGCATCGAAGACATC  
GTTGTGGTGAATGAAGACGGTTGTGAAACCCTCAACAACCAGCCCAAGGAAGTGGCT

>RXA01161-downstream  
TGAGCATTCCTCTCCTAGGCGGA

>RXA01181  
TCTGTACTGCTCGCTCGCGACTTGGTGAACACCCCTTCATCACACCTGTACCCAGAGTCC  
TACTCAGTAATTGCATCCAACGAAGCGTCCAAGCACGGCTTGCAGACCACCATCCTGGAT  
GAGAAGCAGCTTGCTGATCAAGGTTTCGGCGGCATCCTCGCAGTCGGTAACGGCTCCTCC  
CGCAAGCCTCGTCTGCTGCGCATCGATTGGAAGCCACGCAAGGCTAAGAAGTCGATCGCT  
TTGGTTGGCAAGGGCATCACCTTTGACACCGCGGAATTTCCATCAAGCCTGGCGCAAGC  
ATGGAGAACATGATCTCCGACATGGGTGGATCCGCATCCGTATTGGCCACCATTATCGCT  
GCAGCTCGTTTGAACCTGTGATCAACGTCTTCGCGTTTCTACCAATGGCTGAGAACATG  
CCATCCGGTGACGCTTTCCGCCCCGGCGATGTCATCACTCATTTCCGGTGGTATCACCTCC  
GAAATCTTGAACACCGACGCTGAAGGCCGCTCATTCTGGCAGATGCCATTGCTTACGCT  
TCTGAAGATAAGCCTGACTACCTCATTGATGCGGCAACCCTGACTGGTGCTCAATTAGTC  
GCTTTAGGCCTGCGGACTTCAGGTGTCATGGGTACCGATGAGTTCCGCGACAGCGTTGCC  
AAGACTGGCCGCGAGGTTGGCGAGCAAGCATGGGCAATGCCTCTTCTGAAGAGCTCGAT  
GAGCAGGTTAAGTCCCCTGTCGCTGACCTGCGCAATGTCACCAATTCCCGTTTCGCAGGA  
ATGCTGCTGCGGGTCTTACTTGCAGGAATTCGTTGGTGCCGACATCGAGTGGGCTCAC  
GTCGATATCGCTGGCCCTGCATACAACACTGCTGGTGAATTCGGTTACACGCCAAAGCGC  
GCAACCGGACAACCAAGTGCGCACCTTCGTTACAGTTCTGAAGGATCTGTCGGAAAGC

>RXA01181-downstream  
TAAACGCTAGTTAAAGATCAGGA

>RXA01182-upstream  
GTTAAAACGGAAACTAATACCCCAAAGGATACCGATTCAATTTGTGATGTGTGGTGTTCG  
GGTCATATCAAGCTAAACAGATGCCCCCTACAATAGGCTT

>RXA01182  
GTGTTCAATTTATTTGGTTCGTAAAACTCCTCGCTCTAACCTCCGCCCCACCACGCGGTCCG  
GGCGATACTGTGCGCCCGGAAGATTTAAAATTCTTGATGCAATGGGTGCAGGATAAGCCA  
TTTGTGAGGCATTCGTTGAACCGGAAACGCTGGTCAATGAGATGTCTGTCGTTTGGTT  
GATGCTCATGGGGTTTTTGTCCGCCGAAGGATCGGCGGTCCCAAAGGGATTGATGTTATC  
GCGAAAAAGCTCGGCGTTCCGGTTTATGATGTTGAGGAGACCGGTTACCCCCAAAGGATG  
CGGAACGCATTGAATATGAGCGCATCTTAAGAAAGCGTGAGGAACAAAAAGCTCGCCGC  
GCTAAATTTGAGCGCGCGAGAATCCTGATCTT

>RXA01182-downstream  
TAACTAGCGTTTAGCTTCCGAC

>RXA01189-upstream  
CACCTGCAGAAAAGGAAGCTTAA

>RXA01189

ATGATTTCCATTTCCATCGCCGACGACGAAGCCCTGATCGCAAGCTCCCTGGCAACCTTG  
CTCAGCTTGGAAACCCGATTTAGACGTCCGACCTACCGCAGGATCCGGTGAAGAATCATT  
GAAACGTGGGCGGATCCAAGCAACCGAACCAGATGTATGCGTCCTTGACCTTCAACTCGGA  
GGCATCGACGGCATCGACACCGCCACCCGGCTCATGGAAACACCCCAGATTTGGCCGTG  
CTCATCGTGACCAGCCACGCCAGGCCCGGACAACTCAAACGCGCGCTTGCAGCAGGTGTT  
TTAGGATTCTTGCCCAAAACATCCACCGCAGATGAATTGCCCACCGCAATCCGCACCGTT  
CACGCTGGACGACGCTACATCGACCCCGAAGTAGCCGCCATGACGATCAGCGCCGGTGAA  
TCCCCATTAACCAACCGTGAAGAAGAAGTCCTCGAACTAGCAGGCCAAGGACTAAGCGCC  
GAAGAAATTGCGGTGGCAGCGCACCTCGCGCCGGGAACACCCGCAACTATTTATCCCAA  
GCTATGACAAAAGTAGGCGCGCAGAATCGCTTTGAAGCGTTCACGCGCGCCAGGGAATTG  
GGCTGGTTG

>RXA01189-downstream

TAGCTTGTGGCTTATCTCCTATT

>RXA01192-upstream

CCACGGTGAACACCTGCAGGTGGAGCAAGCTAGCCTTGCGCATCCGCCAGAGATTATTC  
GGAGATTCTTTTTGGTGGATCGTCGCCAGCTGCAGGTGAG

>RXA01192

GTGGCTGCACGTTATGCGGACACCTATCTCACGTGGGGTGAACTCCCGATCAGGTGGCG  
CAGAAAATCAACTGGATCAACGAGCTAGCAGCACAGCGCGGCCGGGAAGTGCGCCATGGA  
ATCCGCTTCCATGTGATCACCCGCGATACGTCTGAAGAAGCATGGGTGGTGGCAGAGAAG  
TTGATTAGCGGGGTCACTCCAGAACAGGTGCTAAGGCTCAAGCCGGGTTTGCAACGTCT  
AAGTCGGAGGGGCGACGCCGGATGGCTGAGCTGCACAGCAAGGGTCGTGCCTTTACTAGT  
GGCTCAACTGCTCGTGATCTGGAGGTGTATCCCAATGTGTGGGCAGGCGTCGGTTTGCTT  
CGCGGAGGTGCAGGAACAGCCCTTGTGGGCTCGCATGAAGAGGTGCGCGATCGCATCGAA  
GAATACGCAGCACTCGGCTTGGATCAGTTTGTACTGTGCGGGTTATCCAACTTGGAGGAG  
GCCTTCCACTTCGGTGAGGGTGTGATTCCGAAACTGCTGCGCCGCGGTGTGGATATCAA  
AATCAAGAATCACGAGTTTTTGGAACTGTTGGG

>RXA01192-downstream

TAAACGGG

>RXA01214-upstream

GTTGATATGATGTGGGGTGTTTATGAAAATTTGTTTGAGGGAGTGAAGGCGCATGTTGTT  
GCCAGAGTTGAATCGTCGGACTTTTTTCAAAGGGGCGGG

>RXA01214

GTGCTGGCAGCAACGGTGGTGGGTGCGCAGGTGCTGGTGGCGTGTTTCCTCAGATGATGTG  
CGTGGTTATGGGGGAGAGCCGCGGACGTTGCCTATTCCACCAGCAGATTTAGGTACGCGT  
GAGGGATCTAGCGTGCACTTTGCCCTGGAGGCTCAGACTGGGGAGAGTCAGATTTTGCCG  
GATGTCACAACGAAGACGTGGGGTTTCAATGGCACTCATTTGGGGCCGACGTTGGTGGTG  
AAGAAAGGTGATGACGTCCACGTTGATGTGATAAACAATTTGGATGAAATGACCACTGTG  
CACTGGCATGGCATGAAGTTGCCGGCGATTGCTGATGGTGGTCCGCACTCACCGATCGGG  
CCTGGGCAGACGTGGTCACCAACGTGGACTGTGGCCAATGATGCAGCCACTTTGTGGTAC  
CACCGCACACTCATGGCCTGACAGGTTTGCATGCGTACCGTGTTTGGCGGGGATGATC  
ATTGTGGAAGATGAAGCAACAGACAAGCTGGATCTGCCACGCGAGTACGGTGTGGACGAT  
ATTCCGCTGGTTTTAATGGATCACCGCTTCTTAGAAGACGGTTCCTTGATGAGGAAGAC  
CTCCCCGATCTTGGGCTGTTGGGCGATACCCCACTGCCAATGGCATTACCAATGCGCAC  
TTTGATGCCACCACGCGCCGGTTCCGTTCCGCGTGCTCAACGGCTCCAATATGCGGTTT  
TATAACTTGGCGTTTTTACAGACACGCGCACCTTCCAAGTCATTGCCAGCGATTCGGGTTT  
CTGGATGAACCTCAAGACCGCACCACTTGGCTATTGGCCCAGGCGAGCGGTGGGAAATC  
GTCGTGGAGCTAGAGCCCGGCGAGGACGTACCTTGAATCTGTAGGTTTTGAGGACAAC  
TACGGCGTCCCTGATGATGAGTTTCGTGCCCCGATTTCGGCATGTGAGATTCCTTCCAGCTG  
CTCACCATCACCGGCCCTTCCGATGATGCTGCGCAAGCACCTGCTTGGCCGGCGTGCTG  
GTGAAATCCACCGAACCTGACGTATCGATGCCACTGAACGCACCTTCATCATGAACACC

TTCTCCATCAACGATCTACAGATGGACATGCAGCGCGTTGACGTGGTGATTGACCATGAC  
CAGCCAGAAGTGTGGATTGTCACCAACGACAACCTCCGACTGGCCCCACAACCTTCCATGTC  
CACGACGCCCCGGTTTAAAGGTGCTGAAATTTGAAGGCACCGACGTAGAGCTCTTCAACGAC  
GGCTGGAAAGACACCGTCGGCCTGCCACCGGGAGCAACCGCAACTTTAGCCGTGGAATTT  
GGCCACTACCCAGACCCGCAATGGCCCTACATGTATCACTGCCACATGCTCTACCACGAG  
GATCAAGGCATGATGGGGCAGTTCGTTCATCGTGGAGCCAGGCGACGAGCCGGCGGGT  
CTGGGGTCGGGCACGGGCTCCAGCATTGACTCCGCCGGCGGACATGCGCAC

>RXA01214-downstream  
TAGGGGCGTGGGGCGGCGTCGAT

>RXA01224-upstream  
TTGGCGGCGGGAAGTTCAGGCTTGGGGGCAAACAGTGCTTGGATTTTAGACAAAAAACTC  
ACGGAAGTCATCCTATGGCAGGCGCGCCTAGGATGGTGCC

>RXA01224  
ATGAGCATCCTTGACACGTTGAAAACCTCCCGTGATTGTGCCCCGATGGCTGGCGGGCCG  
TCCACTCCCGCGTTGGTCAATGCAGCAGCAGAGGCAGGTTCCTCGGGTTCTTGGCTGGT  
GGCGTCATGCCTCTTGAGCAGCTGAAACAGGAATTGTCAGAGGTAAAAGGCGTCTTTGGC  
GTCAACCTGTTTCGCCCCGAGACGGATGCGCCTAAGCCTTCAGACATTGATGAGCTGGCG  
GGATTGTTGTCTCGGCGTTTCGGCAATTTGGCCTCGATGAGCCGACGGTGCCTACGCCG  
GATTTGAGCAATGGGTGGGAGGCTAAATTTGAGGCCGTTCTTGCCGCTAAGCCCCGCCGT  
TTTTCTGCACCTTTGGTATTTTTAGCGCTGAAGAATTCGCCCCGATCAAAGCCACCGGA  
ATTGAGGCGTGGGTGACGGTGACCAATCCGGAGGACGCGCTGGCTGCGCAGAAAGCTGGC  
GCCAACGCGCTGTGCTGCAAGGCCCGAGGCGGGTGGGCACCGCTCTACCTGGTCCATT  
GAAGTGAGCCGGACGAGCGCGACCTGAAAACCTCCTCGCAGCTGTCAAACAAGCGGGC  
GTTTACCTCCCGCTCATCGCAGCCGGCGGCCCTTTCAACCTCCGACAGCTGGCAGCAATT  
TTAGAAGCCGGCGCCAGCGCTGCCTCCTGTGGTTCCGCTTTTGTCTAGCGACGAAGCC  
GGCACCAGCTCACTTAACCGCGAGATCTTGGACGCCGCCCGAGCACTTGGTTTGAATCG  
GTGTCATCTCGCGCATTTTCGGGCCGTTATGCCAGGGGAGTGGAACCAGGTTACCCCGT  
TCGAACGAGGGGTTACCCCGCTTGTACCCATACCTCAACCCAATGATCACATCTTTACGT  
AAGGTGGCGGGAAGTGCAGGGAACCTGGGATTACGCCTACTGCCTGGTAGGAGTCGGCCTG  
GAATCGATTGCGAAGGGTAGTGCAAAGCAGATACTGGAATCATTAAACACCTTCCGCTTTG  
GGC

>RXA01224-downstream  
TAATGTTGGGGGAGTGCTTTCA

>RXA01232-upstream  
TATATTKGTMRCTGGCTKACCGRMCCGCGCCMWCGGGTTYACCGCCAGCWTCATCKGAG  
WTMGWCGCAAATCTTTNCTCAWCCGGCTGCGTCCCCGG

>RXA01232  
ATGAGCAGGCAGAnnAnCACCTACACGGACAAGGACATCTCGCAGTTCCACTGGACCAAT  
GGCCTGCCGCCGACCGATGATGAATCCCCCGAGTGGATCGCCGCCGCGACAACGAGTGG  
GAGGGATACACCATCACCTCGGGCAGCATCCCAACGGCACCGAGAAAACCATCACCTC  
GACGATCTGCGGGAGCTGCCGAGACCTCGTATGTGCGCCGTCMACACKTSCWTSCAGGNG  
CTTGGTCAGCTWCCSCCSTGGRRCCANGGGGTGCCGGTTACCGTGATGTTTTGTGTCAT  
GACCTTGTCACACCCCTAGACCTTCACCACAGGCATAGTCCTCGGCTGCTCACAATTGAG  
ATCATACCTAAACCCCTGCCCCAGAAACCGATGCAAGATCATCGATTTTCGATCTGTTT  
GCACCGAACAGTCCCTCGATCGAAGAGTTCTGCAGTCGGCTTAAATATCGCGGCGCAGT  
TTCTACAACATCCGCAACCGATACCAACAAGATGCCAGTGCAGCGCTGCATCCACGCTCC  
AGCGCCCAGATCACCTCCCGGCGAACATACGATGAATCCATCACCAGTATCTTnGTTGGC  
CATCnCGCGCACCGCCTGAAAGCCCCAAGGATnGGGAATACGGTCCGATCTCTATCCGATT  
nCGAAGGCATCTCnACCnGnGGGAAC

>RXA01232-downstream  
TGACTnGnCACCGATTCCAnTCC

>RXA01236-upstream

TTTCCACCAGTTAAGATGTTGTGAGACAAATCCAAACATAGAAGGGCTGTGCATTCTCAT  
GGTTTCAACCACAACATCTCGCTCAATCGCTGGACTGTCA

>RXA01236

GTGCTTGTGGCAACAGCACTAATCGCTGGCTGTAGTTCCGCAGAGGATGGGACGGTTGAC  
TCGGGGAGCAGCACAGAGGTCACCACAACCCAAAGCAAGGAAGGTTTTCTGTCAACCGTC  
ACGTTTGCCCCAGAAGCACCTGTGACCATTGAGGATCAACCAGAGCGCATCGTCAGTTTG  
TCCCCAGCGATTACAGAAACCTTGTTTCGCTGTGGGGCAGGGGATCATGTGCTCGCAGTG  
GATGAATACTCAAACCTACCCAGAGGACGCACCGCTGGTGCAGGGTCTGTCTGGTTTTACT  
CCCAATGTGGAGTCCATCTTGGATTACGATCCTGACCTGGTCGTGTTGATGTCTGCAGAT  
GATTCCATTTTGACCGGCCTGGATGCTGCAGGAGTGGATACTTTAGTGATCCCCGCAGCA  
GAGAATTGGATGAGACCTACTCCAGATTGAACAAGTAGGTGAGCCACCGGATTTGAA  
GATCAAGCAACAACGGTTGTTGATCAGATGAAAACCGCCATTGATGCTGCAGTTGCCACA  
GTTCTGAAGAGGTAAAAGAGCAGGGCTTAACCTACTTCCACGAGCTGGGCAGTGATTG  
TTCACGTGTGTGAGAGCAAACCTACATCGGTGAGATTTACGACATGTTTGGTCTCACCTCT  
ATTGCTGACGGTGGCGACGCTTACTCGCAGCTATCCAACGAAGCAATCATTGCGGCAAAC  
CCTGATCTGATTTTCTCAGCGATGCCAAGGCCGAAAACCTCACTGCAGAAGATATTGCG  
GCGCGTCCAGGCTGGGACACCATTGATGCAGTAGCCAATGGACGTATCTACATTTTGGAC  
GATGATATTGCTTCCAGGTGGGGACCTCGCGTATCCAGCTGGTGGAAGAAATCGCAGCG  
CAGTTGAATCAGCTTGCTTCTTCTGAAGCTGTGCCGGCCGCTGCT

>RXA01236-downstream

TAAGTTTTCTGTGCTGAAGAGAAT

>RXA01250

CTGGATATCGGCGGCATCGAAGCCAAGACGTGGGGATACGTCTCTGACACCGGGGATGCG  
GCCATTGAGGCCACCGCCGGCGACGTCTCCAGGTCGATATCACCAATGACCTGCCTGAG  
AGCACCTCCATCCACTGGCATGGCATCGCACTCCACAACGCAGCCGACGGTGTGCCCCGGC  
ATGACCCAGGACCCCATTTGAACCTGGCGAGTCTTTCTCTCTATGTTTTTGAAGTCCCCCAC  
GGTGGCACCTACTTCTACCATTTCCACACCGGCCTGCAGCTTGATCGCGGCCTCCACGCC  
CCACTGATCATCCGTGACCCGCAAGACGCTGAGGACCAGGACGTGAGTGGAACCATCGTG  
CTCGACGACTGGGTGCGATGGCATTCAGGGCACTCCCGACGATGAGCTCGACAAGCTCACC  
GGAATGGGTTCGGGCGACCATAACGGGAGGATGGGAATGGGAGGTACGGCCAGATGATG  
CACGGCACCCCGGACCGGTACTGGGCGGGGATGTGCGCGATGTGATGTATCCGCACTAC  
CTCATCAACGGACGTATCCCCCGTGCTCACCGGACCTTCGAGGCTCGC

>RXA01254-upstream

CCGATGTTGCCTTCTTAGCAGCTGTTAAAAGGGTAAAAGAAGGGAAGAAAGTGACGTGG  
AAAAGCGCTAGTGCCACTTGCTTAACCTAGACTCGTTTTTC

>RXA01254

ATGAAGCTTTCACTGCCTGCACCCCTACGCCGTTTACGCAGCGCTGCCGCCATCATCTCA  
GCAAAGTTGCGACATCCGCGTCCAAAGCCACAGGTCGCGGATCCGGTGGCATGATCGGC  
GGACTGGTGGCCAGCAAGGTAGACCCGGACATCATGTCCAACCTCATCAACAACCGCCCA  
ACAGTGCTGGTCACGGGCACAAATGGCAAGTCCACCACCACCCGCATGCTGGCCGGCCGG  
ATGCGCAGCACTTACACCGTCGCCACCAATGAAGGCGGCGACAACATGGACGCCGGCATC  
ATTTCTGCGCTGCTCGCTGGCCGAAACGCCTCACACGTGGTCTTGGAAGTCGATGAGCTG  
CACGTACCCGCCCATCGAACGCCTCAAGCCCGACGCCCTCGTGCTGCTCAACCTTTCC  
CGCGACAGCTCGACCGCGTTGGCGAAATTAACAAAATCGAACGTGTCTGCGCGATGCC  
GTGCGCTCTCGACCTGAGATGACCGTCATCGCCAATGCGACGACGTCTCTCGTTACCTCC  
GTGGCTTTGACGCGGAAAACGTCATCTGGGTGCGCGCCGGCACCGGCTGGCAAGGTGAA  
TCCGCCACCTGCCACGCACCGAATCCCGCATCTCCACGACGGACGCCACTGGAGCGCC  
GAAAAGACGCTTCTCGACGGCCGCACCTTCGCACGCCCCACCCCTCATGGGAGGTTGAC  
GGTGATAACCATCCATTACCATCCGGCGATCTACCTTGATCTCAACCTCCCAGGTGAG  
GCCAACCGTGGCAACGCGGCACAAGCAATCGCAGCCTCCACCGTATTTAATGTGCCCGTT  
TCCTCCGCACTGCCCGCAGTCAACTCCGTCAACAACGTTGCTGGACGCTATTCACCATC  
ACTGTGGTGAAACAAAGGTCCACCTCCTGCTCGCCAAAACCCAGCAGGCTGGCAAGAA

GCCCTCTCCATGGTTGATCGCACAGCTGATGGCTTAGTCATCGTCGTCAATGGCCAGGTT  
GCCGACGGCGAAGACCTCTCCTGGCTTTGGGACGTCCGCTTCGAAGACTTCGAAAAACCTC  
TCCGTCAAAGCCTCCGGCGAGCGCGGCACCGACCTGGCAGTCCGCCTCACCTACGCCGAA  
ATCGACCACGAACCTCATCTCCAACCCCGTCGACGCCATCGCAGCCTGCCCTCCTGGCCGC  
ATCGAAGTCTCGCCAACCTACACCGCATTCGAGACCTCAAAAAGGCTCTGGAGAAAGGG  
ACCGAACAA

>RXA01254-downstream  
TAATGACCACCTCAACATCGGC

>RXA01257-upstream  
GCGAAAATCCCCTGGTCCCGCCCCCTGGTCACGAACAGGTAGGGCTTGGCTCACTCGGTTG  
ATTGTAGAGCCTTGGCGCGCATTTGTGGGAAGCTAGATGC

>RXA01257  
ATGCATGTTGCTGAATTATCTTTGCCCACTGGAATTATTATCGCGGCGACTCCGCTCGGC  
AACATTGGGGATGCGTCTCCGCGCCTGGTCCACGCGCTTGCCAACGCCACTGTGGTAGCT  
GCGGAGGATACCCGCGAGGACGGCGTCTTTGGCTGCTGCGTTGGGGGTGGAATTAAGGGG  
CAGTTGGTCTCGAATTTGACCATAATGAACAGGCGCGCGTCCGCAAGCTTATTGAAGCA  
GCGCGCACGGGCACGGTGCTGGTGGTCAGCGATGCCGGCATGCCTGTGGTTTCTGATCCG  
GGTTTTGCGCTTATCGACGCCGCCACGACGCGAACATTCCGGTCACCTGCTTCCCCGGG  
CCGTGAGCTGTGCCAACTGCGTTGGCATTGTTCGGGCTTCACGTGGGCCGCTTTGCCCTT  
GACGGTTTCGCGCCGCGCAAACAAGGTGCGCGCACACGTTGGTGGAGTCGTTGAAAACC  
GAAAAGCGCGCGGTATGTTTCTTCGAATCTCCTCACCGCATCGCAGAAAACCTGGCTCAC  
GCTGCCGAAGTTTATAGGTGAACGACGCGTAGCAGTGTCCGTGAACTGTCCAAAACCTAC  
GAACAGGTAAAGCGTGGAACCTTGCCAGAGTTGGCAGAATGGGCACAAGATGGGGTGCCT  
GGCGAGATCACCGTTGTCATCGAAGGCGCGGGCGATATCGCGGCCGACGTCGATTGCGTT  
ATCGACGCCGCCAGCAGCGCGTTCGATTCCGGCGAGCGGTTGAAAGCGGTGTGCGCAGAC  
CTCGCGAAAATCCATGGCGTGAGCAAAAATGAACTCTACGATGCGGTTATTTCTGCCAGG  
GAAAAT

>RXA01257-downstream  
TAATCGTTATGTCATTGTGATGC

>RXA01270-upstream  
GCATGCACATGCAGAAAGCCTCGCTCCTAATAATCTCGATAGAGATCGATTTATGCAACG  
TGCTGGAAAACCTAGCTTCAACAGATTCCGAGATCATCTAA

>RXA01270  
ATGACTAATGAACGAATTTTTCTATCATCGCCAGATGTAACACAGTTAGAGGAAGACGCA  
TTGGTACGCGCAATCCGATCAGGATGGATTGCACCGCTTGGTCCAGAAAGTTGATGCGTTT  
GAGCAAGAAGCTTGCTGAGTATTGTGGCCGCAATATGTTGTTGCACTTTCATCGGGTACT  
GCAGCCCTCCACTTAGGTCTATTAGCACTAGGCGTTGGAGAAGGAGACTTGGTTCTTACA  
TCATCAATGACTTTTGCAGCGACCAACGCAATTGTTTATACGGGTGCTGAGCCAATT  
TTCGTGGACTGCGATGAATCTGGAATATGGATCCAGATCTTTTAGAAAAAGCCTTTGCT  
GAGCTAAAGAGTGAAGGAAAGGAAGTAAAGGCTGTAGTACCTGTCGATCTACTTGGCAA  
GTTGTTTCAGCACGAGAAGATTAAGAAAGATTGCTGATGAATACGGGGCAGTAGTGCTTTCT  
GATGCCGCTGAATCCTTGGGCGCCATTTCGCAATGGAAGTCTGCTGCAGCATATGGAGTG  
GCGGCAGCGGTTTCTTCAACGGAACAAATATGACTACCAGCGGTGGTGGAGCTTTG  
TTAACTGATGACAAGGATATTGCAGACAACGTCCGCTATCTTGCGACACAAGCTCGCCAA  
CCTGTAGTTTCATTACGAACACACCGATGTTGGGTATAACTATCGCCTTTCAAATATCCTC  
GCTGCACTGGGACGAGCTCAACTTTCCCGACTCGACAAGATGATTGAGCGTCGACGTCAC  
CACCGTGCGTTCTATCGAGAATTGTTTGCAGGTGTTTCTGGAGTAGAGATCTTTGGCGAG  
CCATCAGGGGTGATGGTGGCGACACTATTGATAATTTCTGGCTCACTTCTATTCTTATT  
GATAAAGAAGTTGCGGGATTTAGCTCTGAAGATCTTCGATCAGTTCTAAATCAGGCGAAT  
ATTGAGTCTCGTCCCTTGTGGAACCAATGCATCTCCAGCCAGTATTTAAGAAGTATCGT  
AGCTTACCAATGAAGAAGGACAGAGGCTATTTGATTCAGGGCTTTCTCTCCCAAGCGGT  
TCAGTACTTGATAATGCGTCAATGAATCGTGTTGAGACTACAATTGGCCAGTTTTTGGAG  
AGTCAGCATGCGATC



>RXA01270-downstream  
TAAGTACAAAACTATGGCGTAG

>RXA01277-upstream  
TACTACTCGGTTTACGTTTACGTCGGCTGATCCAATTGGAGGCGCCCTCGGAAGCCGCCT  
TAAAAACCTGCCGGTCAAAAGATCACTAACCTGAACTTC

>RXA01277  
ATGACTGATTACACGTTCCCTCGAAGACATTGACACCCCGGAAGCGCTCGCGTGGGCGGAA  
AAATGGTCGGGGGAAAGCGTCGAAAAGCTAAAAAGCCAGCCAAGGACGCCCTGGAAGCC  
AGGCTGCTGGCTGCGTTGGACACCGATGATCGCATTGCCTACGTGAGCCGGCGCGGTGAG  
AAGCTGTACAACTTTTGGCGGGACGCGCAGCATCCGCGTGGAGTGTGGCGCACGACCACG  
TTGGAGTCGTATGAAAGTGACCAGCCGAGTGGGACGTGCTCATTGATGTGGATGCGTTG  
GCGGAGGATGAGGGCGAAAACCTGGGTATGGAAGGGCGCGGTTGTGCGCTCGCCGGAGTTT  
GATCGGGCGTTGGTGAAGTTCTCGCGGGGGCGGGGCTGATGCGACGGTGATTAGGGAGTTT  
GATCTGGCCACGGCTGCTTTCGTGGATGATTCGCCGTTTGAATTGAAGGAGGCGAAGTCC  
GATGTCACGTGGGTTGATCTGGATACGTTGCTGGTGGGCACGGATACCGCGAGGGGTCA  
CTGACGGATTCTGGGTACCCGGCGCGGGTGTCTACGTGGAAGCGTGGGACTCCGCTTGAG  
CAGGCGGAGTTGTTCTTTGAGGGGTGCGGTGTCAGGATGTGGCGACTCATGCGTGGCGGGAT  
TCAACACCTGGTTTTGAGCGGACGTTTGTGTCAAGGTGCTTGGATTCTATAATTCCGAG  
ACGTGCTGGAACCGAGGGTGGCCTGGTCAAGCTTGATGTGCCGACCGATTGCGATGTC  
ATTGTGAAGAAGCAGTGGATTTTGTGAGTCTCGGACGGATTTCGCTGGGATTCCAGCA  
GGTGGCTTGGGAGTGCTGCTGTTAAAGGAGTTCTTGAAGGGCGGGCGCGATTTTCAGCCT  
GTGTTTACGCCTACTGAGTCGACGTGCTGTCAGGGATTGGCCACGACAAAGAATTTCCCTG  
GTTTTAACGCTCCTTAATAATGTCTCCACAGAAATCGTCACAGTGCCGCTCAATGATCCG  
ACAACGGAGCATGAACACATTGACCTCCCAGAGCATGTACCCGCGCATGTGGTTGCTACC  
TCCCCGTTGGATGGCGATGAAATTTGGGTGCAGGCAGCGAGTTTCACCGAAGCGCCAACG  
TTGCTGCGTGCGGAGCTGCCCTGGTGCCTTGAGGCTGTGAAGAAGGCGCCGTTGCAGTTT  
GAAAATGCTGGTCAGGAGACTCGTCAGCATTGGGCAACCTCGGCGGATGGAACGAAGATT  
CCGTACTTTATTACAGGAGCCTTCGAGGAGGAACCACAAAACACCTGGTCCACGCCTAC  
GGCGGCTTCGAGGTTTCCCTTACCCCAAGCCACTCCCCGACCCGCGGCATCGCATGGTTG  
GAAAAGGGCTACTACTTTGTGGAAGCCAACCTGCGTGGTGGCGGTGAATTCGGTCCGGAA  
TGGCATTTCGACGGCAACCAAGCTGAACCGCATGAAGGTGTGGGAGGATCACCGCGCGGTG  
CTCGCCGACCTTGTGGAGCGCGGCTACGCAACGCCGAGCAGATTGCGATTGCTGGCGGA  
TCCAACGGTGGTTTGCTGACAAGTGGCGCGTTAACTCAGTACCCAGAAGCATTCCGTTGCG  
GCAGTTGTGACGGTGCCGTTGGCTGATATGTTGCGCTATCACACCTGGTCAGCGGGTACC  
TCGTGGATG

>RXA01277-downstream  
TAGGTGTCGGCAACCATGGGAAC

>RXA01288-upstream  
TGCTCAATTTACACCACACGACATCACTGGAAAAACCTGACATCGCCGGCTGATATATA  
TGGAAATATCAACTCCACCCACGTTGCGGGTACGCGCGTG

>RXA01288  
ATGAATGGTATCGGCGGCTCGGGCGATTTACGCGTAACGCCTTTGCTTCCACATTTATC  
TCTCCCTCGGCAGCCAAAGTTGATGCGATTTCCGCGATTGTGCCTTTCGCGTCCCATATC  
GATCACACGGAACATGATGCGATGGTTGTCTATTACTGAATATGGCTACGCAGACCTGCGC  
GGGCTATCGCCAAAACAACGAGTCCCCAAAATGATTGCCATCGCCACCCGGACTATCGA  
CCACTGCTGGAAGCATACTTTGACCGGGCGCTGAACAGTGCTGATTCTTATCAGCACACC  
CTGCATGATCTGCGCACCGCCTTCGATTTCCATAATCGCTTGAACCTACAAGGAACCATG  
AAAATCGAAAAAGCA

>RXA01288-downstream  
TAGTGCTTTTCGACGAGCCCTCC

>RXA01302-upstream

TGGGGCTGCGTGGTGTCTTTCATCATCGCCACCGCTTTGACCTGGATCTACTACGCCCCG  
CCGAACGCTCCATTCCCGGGATAAACCGAAAGGCCAATCC

>RXA01302

ATGACTACAATACTTCTTCTGGGAAGTCTTCTGAAAAGATCAACCCCTCTTCAAGCTC  
GGCAGTTTCTAAGAAAAGGCACCGTCGGTCTGAAGGCCAGCAGATTTTCTTCAGGGC  
GGACGCCAAGCCGATGTGTTTATCGCAACCGATGGGCTTTGATAAAGTCGTGCGCTCC  
ACACATGGCGTGAAGTGCACGGGCTCCTGCTCGTGGAAGTGTATGTAAAAGACGGTGTG  
ATCACCTGGGAATCCCAGGCAGTGGATTACCCAATACCGGTGCGGATATGCCCCACAAT  
GAACCACGTGGCTGCCCTCGTGGTGCATCATTTTCTGGTACACCTACTCCCCAACCGGC  
ATCCGC

>RXA01303-upstream

AACATGCGGGCGCAGGTCAGAGCTGTTATCTTAGTACTTATCACAGCCATAGGGCGGGCT  
TGACGGAAAGCCTTTCCGCGTAACCATGAAGAGGCATCAC

>RXA01303

GTGACACAATACTCAACACCAAAGGCGTTGTTCTGCAAGGGTGGGATCCAGAAGATCCTGAA  
CATTGGGACTCGAAAATTGCATGGCGAACCTGTGGATTACCACCTTCTCCATGATTATT  
GGGTTCTGCGTGTGGTATTTGGTTCTGCCATCGCTCCCCTACTCAATCGAATTGGATTT  
GATCTCTCAGCAGGTCAGCTTTATTGGCTCGCATCTATCCCCGGTTTGGCCGGCGGATTA  
ATCCGATTGATTTACATGTTCTTCCACCGATTCTTGGAACCCGCAAATTGGTCGGAATT  
TCCTCCGGTCTATTTTTGATCCCCATGTTTGGGTGGTTCTGGCTGTCCAAGATTCAAGC  
ACTCCCTACTGGTGGCTTCTCACACTCGCTGCACTCACTGGCATTGGTGGTGGCGTGTTT  
TCTGGATATATGCCGTCCACGGGATACTTCTTCCCAAGGCAAAATCGGGCACTGCGCTG  
GGCATTTCAGGCAGGTATCGGCAACCTCGGCGTCTCGATAATTCAAGTTCATGGGCCCCATGG  
GTCATGGGTTTCCGTCTGCTGGGCATTGGTTTCTCACCCCGCAGCGCACCATTTGAAGGC  
ACCACGGTGTGTTGTGCACAATGCTGCGATTGTGTTGGTCCCGTGGACTATTCTCGCGGCC  
GTTTTATCCTTCTGTTTCTTAAAGATGTCCAGTCACCGCAAATTTCCGGCAACAGATC  
GATATCTTTGGCAACAAGAACACATGGATTTTGTCCATTATCTACTTGATGACATTCGGT  
GCCTTCGCCGGTTTCGCCGCGCAGTTCCGGTCTGATCATCAACAACAATTCGGCATCGCT  
TCCCCGATGGCAGAGACTTATCCAGCTGAGATGCTTCACGCCGGTGTACGTTTCGCGTTT  
CTTGGACCTTTGATTGGTGTCTTGGTGCCTGCTGCATGGGGTCCACTGTGTGACAGATTC  
GGTGGAGCTATCTGGACCTTTGTGCGTGGCATCGGAATGACTATCGCCACTGCAGCTGCC  
GCAATCTTCTAAGCAGAGCGGAGACACCTGATGATTTCTGGCCATTCTGTGGTCCATG  
CTTGGCCTGTTCTTCTTACCGGTCTGGGCAATGCTGGCACCTTCAAACAAATGCCCCATG  
ATTTTGCCTAAACGCCAAGCAGGTGGCGTGATCGGCTGGACCGGTGCCATTGGTGCCTTC  
GGCCCCCTTCATTGTGCGGTGTCTTGCTCTCCTTCACTCCAATGTGCGGTTCTTCTGGGGC  
TGCGTGGTGTCTTTCATCATCGCCACCGCTTTGACCTGGATCTACTACGCCCCCGCGAAC  
GCTCCATTCCCGGA

>RXA01303-downstream

TAAACCGAAAGGCCAATCCATGA

>RXA01307-upstream

TTCCCCAACCCGCATCCGCTACCCATACATCGGTGGCGTGCTAGTTGATATGTCCGCGAA  
GCCAAGGAACGCCTGGGCGATCCG

>RXA01307

GTGCTGGCGTGGCGCGACATTGTAGAAACCCAGAAAAGCGCAAAGCATATGTATCCCAG  
CGGGGCAAAGGTGGCCTCATCCGCGTTCAGTATGAGGAAGCCATGGAGATTGCTGCGGCA  
GCCCATGTGTACACCATCCGCCAATACGGCCCCGACCGCATTTCATGGATTACCGTTATT  
CCCGCAATGTGCGAGGTGTCTTACGGTGTGGTACTCGCTTCTTGAGATGATCGGCGGA  
GTGGCGCTGTCTTCTACGATTGGTACGCCGACCTCCCACCAGCATCACCAAACTTTT  
GGCGATCAAATGACGTTCGGGAATCTGGCGACTGGTACAATCCAGTACCTCATGATG  
TGGGGTTCCAACATTCGGGTGACCCGACGCTGACTCCCACTTCATGGTGGGAAGCCGC  
TACAAGGGCACCAAGGTGTGTTGTGGTTTCCCCGGATTTTCGCTGACTCCACCAAAATTTGCT  
GATGAATGGGCACGCATCCACCCTGGTACTGACGGCGCACTCGCCTTTGCCATGGGCCAT

GTGATCTTGAAGGAATTCCATGTTGACAAGAAGACGCCGTA CTTCATGGACTACATGCGC  
AAATACACGGACTCTCCTTTCCCTCGTGGAATTAGATGAGCACGGCGATGGCACCTACACC  
CCAGGTAAATTCCCTCACTGCA

>RXA01308

GCCGCCACTCCAAATGCCACCCACCGTCTCCTTGTGCTGCAAAAAGATGGCTCAGTTGTA  
GATCCCGGTGGCACTGTGCGGGACCGTTGGGGTGAAGAAGGCATGGGTAAAGTGAATCTG  
CGCTTAGACGGCGTAGATCCAGTGATGACTATTGCAGATGTACAGACTGACACCGAAACT  
GCGGAAGTCCTCTTCCCCCGCTTCGATCTCCAGCAACTGCCACCCAAGAAGGCCCAT  
GGTGCTGGCACCATCAGCCGGGGCGTTCACCATCACGTTGAATGGCCGAAAGTACACC  
ACTGTCTTTGATGTGTTGCTCGCACACTACGGTGTGAACCGCGAAGAGCTCAACCTTCCCT  
GGTGAGTGGCCTAAGGATTTCCAGGATCCAGTCATGGGTACTCCTGCGTGGCAGGAAGAG  
CTCACGGGTGTTCCCTGCTAATCAGGCGATTTCGTTTGGGTGCGGAATTTGCTCAGAATGCT  
GATGATTTCAAGGGCCGTTCCAGATCATCATGGGTGCTGGTGTGAACCACTACTTCCAT  
GCGGATTCTATTTATCGCACATTCCTGGCGCTGACCTCTATGTGTGGCACCCAAGGTGTT  
AACGGTGGCGGTTGGGCTCACTACGTTGGTCAGGAGAACTCCGTCCAATGAATGGTTGG  
GCACAGTATGCCTTTGCTACAGACTGGCAGCGTCCACCACGTCAGATGATCACCCTGGT  
TTCTACTACCTCACCACGGATCAGTGGAGGTATGACAACACTCGTGCTAATCGTCTGGCT  
TCCCCACTGGCTAATCGTGGCACCGTGGGTGACAAAATGACGGCGGATACCTTGGTGGAA  
TCCATGAAACGTGGATGGATGCCGTCAATCCCGCAATTCAACCGCAATCCCCCTCATCTTG  
AGCCAGGAGGCGGAAGAAAAGGGCGTGTCTGTTTCTGACCATATTGTTTACGAGCTCACC  
GATGGTGACTTGCAGTTTCGCTGCGAGGATCCGGATGCACCGGAAACTGGCCACGCATT  
CTGCTTAACCTGGCGCACAACCTAATGGGCTCTTCAGCTAAGGGCACGGAGTTTCTTG  
CGCCATATGTTGGGTGTGGATTCTGATGCATCTGCTGAAAAAACGCGCCGGAGGATCGT  
CCAAGTTCCATTGTGTGGAGGGATGAAGCTTCCGAAGGAAGCTCGATTGATGCTGACC  
ACGGAT

>RXA01309

ATTGCAGACCACGAAGGTACCCACATCAATTGGGACATGGTCAAAGAACGTTCCGCCGAG  
TGTATCACCTCACCGGAGTGGACTGGTTCCAAGAAGGACGGACGTCGCTACACCGCTTT  
TCCATCAACATTGAATACGACAAGCCGTGGCACACCCTGTCTGGTCGCATGCACTACTAC  
CTCGACCACGATTGGTTTATTGATTACGGCGAGCAGTTGCCAATCTTTAGGCCACCGTTG  
GACAAGATCCACATCAATGGTGAGGTGGGCCCTGGCCAGTCGGTCACAGGCACCGACGGC  
GAACCAGAAGTAACCGTGCCTTATCTGACCACCCACAACAAGTGGTTCGATTCACTCGCAG  
TACTACGACAATCTGCATGTGCTTTCTATTTCTCGTGGCGGCCAGGTGATCTGGATGTCC  
AACAAGGATGCAGAGAACTCGGTATCGCTGACAACGATTGGATCGAGGCTTATAACCGC  
AACGGCGTTGTTTCTGCTCGTGCGATTGTCTCCACCGCATTCCTGAAGGCACCGTGTTT  
ATGAACCACGCGCAGGAACCCACCGTGGCACCCCGCTGAACGAGAAGTCTGGCAGGCGC  
GGCGGAACCTACAACCTCTTACTCGAATCATGATTAAACGGTCCATGTTGCCGGTGGC  
TACGGCACT

>RXA01309-downstream

TAACCTATGGCTTAACTACATCG

>RXA01324-upstream

TCCTCAACCCAATGCTTGCCGGCATTGCGATGGCCTTCAGTTCAGTTTTCGTCGTCTCCA  
ATTCTTGCCTCTGCGAGGATTCAAAGCAAGGAGCAACTA

>RXA01324

ATGTCCAACAGCGAATGCCACACCCACGGTTACATCGAAGAAAAGCAGCGTTACCTCGCA  
CGCCTCAAAAGAATCGAAGGCCAAACCCGAGGCATTACCGCATGATCGACGAGGAACAA  
TACTGCATCGACATCTCAGCAGATCTCCGAGTGAAGTCCGCACTCAAAAACGTGGCG  
TTCGGCCTCCTCGACGATCACCTCGCTCACTGTGTCAAAGAAGCAGCTGACCTCGGCGGC  
GACGAACTCGACGCAAACTCAAAGAAGTTTCCGACGCCATCGCCCGCTTCAGTAAGGCC

>RXA01324-downstream

TAAACGGATCCGGTGGCATTGGA

>RXA01340-upstream

CAGAATACTTCCGTTGGTTTGCAGGAAGAAGCAGTGCACCTGCCCGGCCGCTACGGACAGT  
CACCTTCGGAATCGGTCACATCGCCGTCACCCGCGCACCC

>RXA01340

GTGGGACCAGTGCTGGCGATCACCCCATGGAATTTCCCATCGCCATGGCCACCCGCAAA  
ATCGCCCCAGCCCTGGCCGCTGGTTGCCCGTGTGGTGAAACCTGCTTCCGAAACCCCA  
CTGACCATGGTCAAAGTGGGGGAGATCATCGCCTCCGTCTTTGATACCTTTAATATCCCG  
CAGGGCTTGGTCTCAATCATCACCACCCTCGAGATGCAGAGCTATCGGCAGAACTCATG  
GCTGATCCTCGCTTGGCTAAAGTCACCTTCACTGGATCAACCAACGTGGGACGCATCCTG  
GTCCGCCAATCCGCGGACCGACTGCTGCGCACCTCCATGGAACCTCGGCGGAAATGCAGCT  
TTTGTATCGACGAAGCCGACAGCTCGACGAAGCCGTATCCGGTGCCATCGCCGCAAAA  
CTCCGCAACGCCGCGCAAGTATGCATCGCAGCTAACCGTTTCTTGGTTTCATGAATCCCGC  
GCTGCCGAATTCACCTCAAAGCTGGCGACAGCCATGCAGAACCTCCATTGGGCGCGGTG  
ATTTCTGCCCGCAACGCGACCGGATCGCAGCACTAGTGGATGAAGCCATCACCGACGGC  
GCCCCGCTCATCATCGGTGGGGAGGTCCCCGACGGCTCCGGCTTCTTCTATCCAGCCACC  
ATCTTGGCCGATGTCCCTGCACAGTCACGGATTGTGCATGAGGAAATCTTCGGACCTGTG  
GCCACCATTGCCACTTTCACCGACTTGGCCGAAGGCGTTGCACAAGCAAATTCACCGAA  
TTCGGCCTCGCAGCCTACGGATTACAGCAACAATGTGAAAGCAACACAGTACATGGCGGAA  
CACTTGAAGCCGGAATGGTCCGAATCAACAGAGGCGCCATCTCTGACCCAGCAGCACCT  
TTTGGCGGCATCGGACAATCCGGCTTCGGCAGAGAAGGCGGAACCGAAGGAATCGAAGAA  
TATCTCTCCGTGCGTTACCTCGCTTTGCCG

>RXA01340-downstream

TGACACATGAGCTGTCCGGTGAA

>RXA01354-upstream

TCCGGCGCCATGCGCCTTCCAAAAAGGCATTGCTTTTCGACGTCCCCCTACGCTTCGATTT  
TGCAAAATTATTTAGGCAAGGCTACCTTTTGCTATGCAT

>RXA01354

ATGAAGATTAGCCGGCGCGCATTCCTCGGCACACTGCTCGGCGCCACCACCCTTGCTGTA  
ACTGCCTGCGCGCAATCCTCTCAAACCAAACTCCTCCGCTTCTCATCTTCTTCATCC  
TCAGCGGAATCAAGCACCTCTTCATCCTCCTCCGATGAACAGCGCATCGTCGCCCTCAAC  
ACCGGTCAGTTGGACAACCTCCTCCTTCTCGGCATCACCCAGTGGGCGTCGCCGCTGCA  
AAAAACTCTGACCTGATCCACAGTTCTCAAGGATCGCTTCGGTGCAGACATGGACTTG  
GACAGCATCGCCGACTGCGGTCTCCGCCAATCTCCAGACATCGAAGCCATCGCGAACCTC  
AACCCACCCCTGATCTGCGCAAACCTCCCGCGCCGACGAAGAGGTCTCAACAACTCCGC  
ACGATCGCCCCCGTGGTCACCGGCGAAGGTGGCGGTGAAAACCTGGAAGCAAGACCTCCTC  
ACCATCGCAGAGGACGAGGCGCAGAAAGGCTGAAACCCTCCTGAAATCATACGAG  
GACTCAGCAGCCGAAATCGCCGCAAACCAGCCTGCGAACCACCAACCGTTTCTTCTG  
CGCACCAAGATCAGGAATTCCAGATGTACGGCGCACAATCCATGGCCGGAACGGTTGCT  
GCCGATTGCGGTTACGCCCGCCAGAAAACCAGCAGTTACCGACACGGCAGGTCAAGAC  
CTCTCCGCTGAGCTCATTGCCCAAGCTGATGCCGACTGGCTTTTCTACGGCATCAAAGAA  
GGCAACATCAACCCTGAAGACACCCATTGTGGACTTCACTCAAAGCGGTTCAGTCCAAC  
CAAGCAATCCAGTTGACGGCGATTCTGGTACCTCAACGCATCCCTCGTGTGCGGTGAA  
ATCATCTCCAAGGCCTCAAAGACAACGTACCGTC

>RXA01354-downstream

TAAGCCGATTTAAGGGCCTCAAA

>RXA01358-upstream

GAGGGTAAACCTTATACTCCGATTGTTTTGATGTGGTGGCAATCGTTTTGGATCCGCAC  
ACGGGGCGCCAGAGATCACTGTTTATGAGGATGTGGAAC

>RXA01358

ATGGCGCTCGGTAGAACTATATCCACTGCGCAATTAGGTGTGCAGGCAAAAATCGTTTCGT  
GTGGAGGCTAATGTTGGCCAGGATTGCCTGGTACCTACATTGTTGGATTAGCAGATACT

GCCATTTTCAGAACTCTCGGGATCGTATTAAACTGCGGTGCAAAACAGTGGCTTGATGTGG  
CCAAAGACCAAAGTGATCATTAACCTCTCGCCGGCTTCCATGCGTAAACAAGGTTTCGCAG  
TGTGATCTCGCGATGACCGTTGACAGTTCTCGTTGCCATGGCTCTAACCCCAAAGCGAAG  
TTTCATGCGCAGAACACGTTATTTCTGGGTGAGGTGGCGCTTGATGGAACCTTGCTCCCT  
GTTACTGGAGTTCTTCCAGCGCTGTTGGCCGCGAAGGAGGAAGGTATTGGCAAGATTGTG  
ATCCCGGAGGGAAATGCCCAAGAAGCAGGACTGGTTGAGGATCCTTCAGTCTTTTTTGGCA  
CATTCCATCGACCAAGTCTTGCATGGCTTGATGGGGAAGAGGCGTTGCCTCAGCCTGGA  
CTATTCAATGATGAAAATAGCCTCAAACCTGCCTGATATGCGTGATGTGGTGGGACAACCA  
GAAGCTAGGTTTGTGTCAGAAAGTAGCTGCTGCCGGTGGTCACCACATGCTGATGATTGGC  
CCTCCCGGTTCTGGAAAATCCATGATCGCCGAGCGGATTCCCAGCTTGCTTCCCGAACTG  
TCGCCCCAACAAATGATCGAGGCGACGGCAGTGCATTCCGTTGTGGGGCGAACCTTTTCA  
GGGCGGCTGTCGAGGGCTCCGTTTATTTCCCCACACCACAATGTCAGCAAGGCTGCTCTG  
CTCGGAGGTGGCTCGGGATCTCCTCTTCCGGGTGCTATCAGCCTGGCGCATCATGGTGTG  
TTGTTCTCGGATGAGGTTAGTGAGATTCCAGCGTCAATCCTTGATTCTTTGAGGAGTG  
TTGGAATACGGCTCGATCCGCATCATCAGATCCCGCCATGATGTCACCTTCCCGCACAG  
TTCCAGCTCATCCTCGCGGCCAATCCGTGTAGATGCGGTGCAGAACAGCCTCAAGAATGT  
GTCTGTTCTGGCTCAGCTCGCGCGACGTACCTTAATAATCTTTCGGGTCCGTTGAGGGAT  
CGCTTGGACATGGTTGTTGCCACCCACTCTAAAGGTGCAGTGTGCGTAGTGATGACGTT  
GAGGCATCTGCTCCCATTTGCTGATCGGGTGGCACAAGCTCGTGAGAGGGCAGCTTTCCGA  
TGGCGCCGTTCTGGACTGGGAAATCTTGTTAATGCACACGTAGATCCACACTTCTTGCGG  
AGGAATTTTGCCGCAACAGAAGACGCCATGGTGTACCTCGGCGCGTTCTTGCGGAAGGA  
ACAATCTCCCAACGTGGCTGCGATCGGGCCATAAACTGGGTGGACCTTGTCGATTTG  
GATGGGGAACAGCAGCCCAATCTTGACCATATTGCGCGAGCCATGGAGCTTCGGGGCACT  
ACATACAGTGAGGTAGCAGCA

>RXA01358-downstream  
TGATTGACTCCCGCTTGCTGGCA

>RXA01385-upstream  
ATCACACTTTTCATTTCGAGTGTGATCTGAACTACATTTCTGGTTACTGTACGGAACACGC  
TCCGTGAATGAGATAGGAAATCCCCTCGAAAGGACCAGAC

>RXA01385  
ATGCAGTTTCATTATGAAGGATACGCAACCGGTGACCCAATGGAGATGCGCGCGGAAGGT  
AGCGGAATCAACCGCCCGGACGATCTCCCCGAGGTGATGGATGTTCTCATCGTTGGTGCA  
GGTCCGGCTGGCACCATCGCAGCGGCTCAGCTTTCCCGATTCCCCAATGTGACCACCCGC  
CTCGTAGAGAGAAGCGACCGTCCGCTCGAAGTACCAATGCAGATGGCGTGCCTCCCGA  
ACCATTTGAACTTTCCAGGCATTTGGTTTCCGCCCACGAGATCCTCGCCGAAGCTCATGAA  
ATCACCGACATGGCGTTCTGGAAGCCGACCCGCAAAACCTCGTGAGATCATTCGCGAC  
AACAGCACCCCGGAGCTGCCACAGCACATCAGTGAATTTCCGATGGCGTTGCTCACCCAG  
ACCCGCATCATCGACCACTTCAACCGGTTTCATGAAGAACTCCCCAACCAAGGATGAAGCCT  
GACTATGGATACGAGTTCTGAGGCTTTGAAGTAGAAGAAGACGCAATATCCGTTAATT  
GTCACCCCTCCGCGCACCAAGTGGCGAGCAAACTGGCGAATTGGTCACCGTCCGAACCAAG  
TACCTGGTCCGGTGCCGATGGTGCACGAAGCCAAGTGGCGAAATCACTGGGATACCGACTC  
CAAGGTAAGCAGGCTAACACGCTTGGGGTGTGATGGATATTACGCGAACACCGAGTTT  
CCCGACGTGCGCAAGAAGTGCACCATCAATCTGATTCCGGGTGCGACCATCTTGCTCATC  
CCACGTGAGGGTGGCTTCCCTCTTCCGTCTCTACGTTGACCTGGGCGAAGTACCTGATGAT  
GGCAGCAAGGCTGTTCTGTGATACCCCACTCCAGGATGTCATCGACACCGCGAACCAGATC  
ATGGCTCCATTACCCCTCGACGTGAAAAACGTTGTGTGGAACCTCCATCTACGAGGTAGGC  
CACCGCGTCGACAGACATTTTCATGACCGTGTTCAGAAAAAACCTCGAGCGAACACCCA  
CGCATTTTCATTGCTGGCGACGCTGCCACACCCACAGCGCTAAGGCTGGCCAGGGCATG  
AACGTGTCCATGCAGGACGGATTCAACCTTGGCTGGAAGCTTGACATGTGGCCAGCGGA  
AATAGCCACGCGAACTACTTCAGACCTACGCTGAAGAGCGCGAAGACATTGCCTACAAG  
CTCATCGAGTACGACAAGAAGTGGTCAACACTCATGGCAAAGCCAAGCAGCGAAATGGGC  
AGTGCCCAAGACCTTGAGGATTTCTACCGCGCGAACTCTGAGTTCAATGCCGGCTACATG  
ACCACTATCTCTCTTCTTCCATCACAATGGATGGCAGCAACCAAGATCTGGCAAAGGCG  
TACCAATTTGGCCGACGCTTCAAGTCAGCGATGGTTGGTTCGAGTCTGCGACTTCACCGAA  
ACACACCTCGGTACCAAGCAACAGCCGACGGAACGATGCGCGCATACGCTTTCGAGGA  
TCCGATGCACTTAACGGCGAGGGTTCTGAGCTAGACCGCTGGGCAGAAATGGGCAGAGGCG

AACCTTGACCCACGCTTGTGCGACGCCAAGGTGATTTACCAAAGCCCTTATACCGAGCTC  
GACACCCGCCAGGTTCCATCCGTGTTCAAACCTGCAGTCGGGATCTTCGAACTGACCAAT  
GTGGAAAACCTCTTCGGTATCACCACGGACTCCGACATCTTTGATAGTCGCGAGATCTCC  
CGCGATGGTGTGCTGGTGGTAGTCCGACCAGACCAATACGTTTCCGGAATCTTCCCCTC  
ACTGATACCCAAGGGCTTGGCGAATTCTCACCAGGATACTTCCCCAAAATGAAAGGCGCA  
CATCAGCTAATCAACGCGAAC

>RXA01385-downstream  
TAAGGCACAGCTGTTAAAACAGT

>RXA01412-upstream  
CGCCTTCTTTGCAGCTGAGAATTAACCTCACCTTGCCCTTATACCCCATAGGGGTATAGC  
CTTGAGGGAGAGAGTACTTCACCTGAAAGGGGCCAGTGAC

>RXA01412  
ATGGCATTAAAGAACTACACCGTTGAGGGCATGACCTGCGCACACTGCGTGGCATCGGTA  
ACTGAAGAGGTAAGCGAAGTTAATGGCGTTAGCGCTGTTGACGTCCTCTAGAATCAGGA  
AACGTCGCTGTCAGTGGCGAAGGTTTCAGCGATGCAGAGATCCAGGCTGCTGTAGAGGAA  
GCCGGCTACAAGATCGTTGCCTCC

>RXA01412-downstream  
TAAAGCACCCAAGAACATTTAAA

>RXA01426-upstream  
AAAAAGCACCATTCGGCAGCCAACACTCAAGCTTCTTAAGTTGAGTCGTTATAGTTGAGT  
GTTGTACCGCTCGATATCTTGCCCGAAGGGGACTTTTTTC

>RXA01426  
ATGACCACGCCTCCAGCAGCCGCTGAAATTTTCGGGGACAACCTCGAAAAAGCCATTGCA  
TATCATGAATCTTTGGCAACAGATGGATCCGTCGCGGATTCATCGGCCCCCGTGAAGTT  
CCCCGCCTGTGGGATCGCCACATTCTAAACTGTGGTGTATCGGCGAAGCTATGGATGAG  
GGCATCTCTGTTGCAGATATTGGTTCTGGTGCGGGACTGCCAGGAATTCTCTTGCTATC  
GCACGCCCAGATCTCAACATCACTCTCATTGAGCCATTGCTCAAGCGTTCGGTGTACCTC  
AACGAGGTAAAAGAAGCCCTGAACTTGGACAATGTCACCGTCGTTCTGTTGCTGCTGAG  
GAAAAAGTGGTGCAGCAAGCAGGTCGGATTGGTCGATATTGTCACCTCCCGAGCTGTTGCT  
CCACTGGGCAAGCTAGCGACCTGGTTCGTTGCCGCTGGTGAATAATCGGTGGACGCATGGTG  
GCCATGAAAGGCTCCAGCGTTGAGGAAGAAATTGAGCGTGACGCCAAGGAAATCCGCAAG  
GCTGGCGGCACTGACATTAAGGTTTATACCGTGGGTGAGGCGCTGTTGAGCGAGCCACA  
ACACTTATTTCAATCCGCAGGGAAAAAG

>RXA01426-downstream  
TAACCATCCACTTCGGTGGAATG

>RXA01427-upstream  
CACTTCGGTGGAATGGGTACAGCGTTAAGCACTAATGTGGAATCGATGACGTGTGCATGA  
AGAAATTCGATGCACAGGAAGATAGGGATGGTTGACGTCG

>RXA01427  
ATGGAAGACACTACTTGGGAAGACACACCAATTGCTGCGGCGGCGCTCGTGACGCTCAG  
GTGATGACACCCAACCTCCCTGACGTTGCCGAAACCTAAAGAACCACGCCTAATTACCATC  
GCCAACCAAAAAGGCGGCGTTGGTAAAACCACTCCACGGTGAATTTGGCTGCGTCTTTA  
GCAATTCATGGGCTTAAAGTTCTCGTCGTGGATTGGATCCGCAGGGAAATGCGTCGACA  
GCGTTGGGTGTGAGCACCGCTCTGGAACCTTGTCATCTTATGAACTACTGATCGGTGAA  
TGCACTGCTGATGAAGCAATGCAGCCATCCACAGCTAACGAAAACCTCTTCTGCATTCCA  
GCAACCTGGATCTTGCTGGCGCAGAAATTGAATTGGTCAGCTTGGTCCGCCGCGAATAC  
CGTTTGGCGGATGCGTTGGGCCGTGAGTTCATTGACAAGCACGATTTTGATTACATGATC  
ATTGACTGCCACCGTCTTTGGGTCTGCTCACCATTAACGCCATGACCGCGGTGAATGAA  
GTGCTCATTCGATCCAGTGTGAGTACTACGCTCTGGAGGGCGTGGGCCAGCTACTGAAC

AACATCACTATGTTGCGTCAGCACCTGAACCGCCAGCTGCATATTTCCGCGATCTTGCTG  
ACCATGTATGACGCCCCGACCAACCTCGCAGAACAGGTGGCCACAGAGGTTAATGATCAC  
TTCGGTGACGTGGTGTGGGTAACAAGATTCCACGTTCAAGGTGTCTGAAGCTCCT  
GGCTATGGGCAGACTGTCATTGAATATGATCCAGGTTCCAGGGGCGCCATGGCGTATTTG  
GATGCTGCTAAAGAATTGGCCACTCGTGGCGATTACTTGCCTAGCGATGAATCCGGTCCG  
ATCGGCCTAAAACCTGCGAAA

>RXA01427-downstream  
TAGCAGTAACTTCTTTGAATAC

>RXA01428-upstream  
GCGATGAATCCGGTCCGATCGGCCTAAAACCTGCGAAATAGCAGTAACTTCTTTGAATA  
CGTTAATTGTTGTGCTGTACGAAAGGTGCGTCTAAGAGCG

>RXA01428  
ATGGCTCAGAACAAGGGTTCCGACAAAGTCCCAGACGGAAGCGTAAGGGCGGTCTGGGG  
CGCGGTCTGGCCGCACTTATTCCTCAGGACCAAGTAATCCCCAGGTCTTGGTGGCGGT  
GCGGCTGACATCATTTTGGGCGGTACCGTGGGTGCGCGTACTGCTGCAGCTCCCAAGCGT  
GAGTCCACACCAGCAGCTCCTGCACCTGAGGCTCCTGCGCAGGCCGCTCCACAACACACT  
GAGGCCACAAAGCCAGAGGTAGTTCCAGAGCCAGCAGCTCCTGCTCCAACGCAGTCAGCA  
CAGCAGGAAGCGCCGAGGCACAGCCAGCACAGCAGTCTGAGTTCCGGCGCATCCTACCTT  
GAGATCCCAGTCGAGCAGATCCGCCCCAACCCGAGCAGCCTCGCCATGAGTTTGATCCG  
CAGGCACTTGACGAGTTGGTGCATTCGATCAGCGAGTTCCGGCTCATGCAGCCGATCGTG  
GTGCGCAGGTCCGAGGATGGCTATGAGCTCATGAGGTGAGCGTCGTTGGCGTGATCC  
AAGCGAGCTGGCCTTGAGGTTATCCCGGCGATTGTCCGTGAAACTGAAGACAGCGCGATG  
CTGCGCAGCGCCCTTTTGGAAAATATCCACAGGGTGCAGCTGAATCCTTTGGAAGAGGCA  
GCCGCTACCAGCAGTTGCTGGAGGAGTTCGGTGTCAACCCAGGCAGAGCTGGCCGATAAG  
CTGGGCCGTTCCCGTCCGGTAATCACCAATATGATTCTGCTGCTGGGCCCTTCCAGTCAAC  
GTGCAGACCAAGGTGGCAGCCGGTGTGCTGTCTGCAGGCCATGCACGCGCATTGCTGGGG  
CTCAAGGCCGCGGAGGATGCTCAGGACACCTGGCGACCCGAATCATCGCTGAGGGCCTG  
TCTGTGCGTGCTACTGAGGAATTGGTGTGCTGCACAACCGTGGTGATCAGGATGAGGAG  
AAGAAGCCACGCGAAAAGGCTGCAACTCCTGAGGTCTTTACCCGTGCGGCTGAGTCTTG  
GCGGATAAATTTGGATACCAAGGTCTCGGTGATGATGGGTGAAGAAGAAGGGCAAGCTCTG  
GTGGAATTCGGCGACAAGGATGATTTGAGCGCATCATGTCCTTGATCCAGGGCCAA

>RXA01428-downstream  
TAATTTTAAGTTTGGCGCCATGC

>RXA01430-upstream  
GAAAACTAGAGAAGCACCTCTAGCTGGTATTCTTACTGCAGTCACGTGGATGAACTATA  
TCCATTGATAATTTTGAACATGAATGATGGAAGGAGCAGG

>RXA01430  
GTGTCTAAAGTCTGAGAGTTGGCGATCGCAGCCCGCGCTGGCAGAAGTGCGCACTACG  
CTCGCTCGCCTCGGTGTGATTGAAGGCTATTCCAGGGAGATGTCTGCAAAGACAGAAATCC  
CAGAAGTTCCACGAAGAAGAGACGCTTTTCGACGAAGAAGTCAAGCTCAGCATCAAGTCA  
TTCCAGCAAGCTCGAGGAGTCGTTCCCTCCGGGCTTATTGACGACCCACCCCTGCGCGCA  
ATCCGCGAAGCCTCCTACACCTGGGAACCCGCGTGCTGGCCTACCAGCCCGGCAACCAG  
CTTGTTGGTGACGACGTTGTAGAAATCCAATCCCATCTCCAAGAGCTCGGCTTCTACGCC  
GACCGTGTGGATGGACATTTTGGCGAGCTCACACACAAAGCTGTGATGAAGTCAAGTCACT  
AACTACGGCATGCAGGTAGACGGCATCTGTGGCCCTGACACCATCCGTGCGCTGTCCCGA  
CTTGGTCTGCGCATCAAGGGTGGCTCTGCTCAAGCTATCCGTGAACGCGAACGCATGCGC  
AATGCAGGCCCCAGTCTTGCTGGCAAGCGTGTGGTCATTGATCCTGCGCTTGGGGGCTCC  
AACAAGGGTCAGATCGTGAAAGGCCCTACGGTGAGATCTCTGAGGAAGAAATCCTCTGG  
GATTTGGCCACCCGCTGGAAGGTGCGATGATCGCAACAGGCATGGAAACCATTTCTGTCG  
CGCCCGCATGAGTATCCAGCAGCCGTGATCGCGCGTGCATCGCGAATGCTTTCGGC  
GCTGACCTCATGCTGAGCCTGCACTGCGATTCTTACCCGAATGAAAAAGCTAACGGCGTG  
GCCAGCTTCTACTTCGGTTCGGAACGGCACCAACTCCTTGACCGGTGAAACGCTCTCC  
GCGTACATCCAAAAAGAGATCGTTGCCCGCACCCCACTGAACAACTGTGGCAGCCATGCC

CGTACCTGGGATCTGCTGCGCCTCACGCGCATGCCCATGGTGGAAAGTTGTCACCGGTTAC  
 CTCACCAACCCCGATGACCTGGCAGTTCTGACTGATCCACAAATGCGTGATCACATTGCC  
 GAAGCCATCGTTGTCGCCGTCAAGCGCCTGTACCTCCTTGATGAGGAAGCACAGCCCAAG  
 ACCGGAACCTTCAAGTTCTCTGAGCTGTTGCAATCAGAGCAGGCTGGC

>RXA01430-downstream  
 TAAATCGCGCCCATCTCTTGAAG

>RXA01435  
 CCTCTTGACCTAGGCTTTACCACCGAAGCACGCCAATGGCTCGAAAACCCTAGAGGGACGC  
 ATCGGCGACGACTGGCGACACAAATGGTTCTCCGGAATCACCTACCTCCTCCTCGACGAC  
 TACGCCACCGCCCAAGTATTCTTCAACCACGTCTGACCATCTGCCCGCGAAGCCGCT  
 CCTAAACTAGCCCTCGCAGCTGTTGACGAACATCATCTCCAACAAATCGGCGCCGAATCC  
 ACCGCCTATCTCACCCAGACATCGTCTCTGCAACCGCGACCCCTCAGCAAAGATTTTCGAA  
 GACCTCGACGCCCTCCGCCTTCAATCACTCAGCGACACCTGGTCCCACATCTCCAGCGAC  
 CCACACGTAGTCCGCTTCCATTCACTGCGCCTCTACGCACTTGCTCTGGGCAACCAACCCC  
 ACCACCGTGTCTCCGCGTTCCGGCTCGCCCCGCAACTCATGGCCGAAAACCAAAATCGAA  
 CTCGCACTCCAAGCCCTAGACAAACTCCCCCAATCATCCACCCACTACCGAATGGCCACC  
 CTCACCACCATCTTGTGCTGGTCTGAGTCCAATTTGAGTGAATCCCGCATCCGACGGGCT  
 GCCCCCGGACTCACCGAAATCCCCACAAACGAACCCCGCTTCAACCAAAATCAAAATGCGC  
 ATCATGTGCGCAGGCCTCAGCTGGCTTCGAGAGCGAAAACCTCAAAGCTTCCGCCTCCGCG  
 AACCTTTGTTTGAATACCCGTTCTCCCAAAAGGCGCTGCGCACCGGCATCTCCGAGGCA  
 CTCCGCATTCAGGCACGTTCTGCACCGTTCCCGCACCAACCGTTACGCACTTGTGGATATG  
 CGAATGCCGTGCGGCCACTGAGTTGGTTC

>RXA01435-downstream  
 TAGCTGTTTTGACTTGGGGCTAT

>RXA01437-upstream  
 ACTATGTAAGAAATCACAACTCCCCCTCATTAGTGCCAGGAGGCACAAGCCTGAAGTGTC  
 ATCAATGAGAAGGTTCAAGGCTGAAATTAGAAAGGCGATGT

>RXA01437  
 ATGTCTGACACACCGACCTCAGCTCTGATCACCACGGTCAACCGCAGCTTCGATGGATTTC  
 GATTGGAAGAAGTAGCAGCAGACCTTGGAGTTCGGCTCACCTACCTGCCCGACGAAGAA  
 CTAGAAGTATCCAAAGTTCTCGCGGCGGACCTCCTCGCTGAGGGGGCCAGCTCTCATCATC  
 GGTGTAGGAAACACGTTTTTTCGACGCCCAGGTGCGCGCTGCCCTCGGCGTCCCAGTGCTA  
 CTGCTGGTAGACAAGCAAGGCAAGCACGTTGCTCTTGCTCGCACCCAGGTAAACAATGCC  
 GGCGCAGTTGTTGTCAGCAGCATTTACCGCTGAACAAGAGCCAATGCCGGATAAGCTGCGC  
 AAGGCTGTGCGCAACCACAGCAACCTCGAACCAGTCATGAGCGCCGAACCTCTTTGAAAAC  
 TGGCTGCTCAAGCGCGCACGCGCAGAGCACTCCACATTTGTGCTGCCAGAAGGTGACGAC  
 GACCGCATCTTGATGGCTGCCACCAGCTGCTTGATCAAGACATCTGTGACATCACGATC  
 CTGGGCGATCCAGTAAAGATCAAGGAGCGCGCTACCGAACTTGGCCTGCACCTTAACACT  
 GCATACCTGGTCAATCCGCTGACAGATCCTCGCCTGGAGGAATTCGCCGAACAATTCGCG  
 GAGCTGCGCAAGTCAAAGAGCGTCACTATCGATGAAGCCCGCGAAATCATGAAGGATATT  
 TCCTACTTCGGCACCATGATGGTCCACAACGGCGACGCCGACGGAATGGTATCCGGTGCA  
 GCAAACACCACCGCACACACCATTAAGCCAAGCTTCCAGATCATCAAACTGTTCCAGAA  
 GCATCCGTCGTTTTCTTCCATCTTCTCATGGTCTGCGCGGGCGACTGTGGGCATTTCGGC  
 GACTGTGCTGTTAACC CGAACC CAAC TGTGAACAGCTTGGTGAAATCGCCGTTGTGTCA  
 GCAAAAAC TGCAGCACAATTTGGCATTGATCCTCGCGTAGCCATCTTGTCTACTCCACT  
 GGCAACTCCGGCGGAGGCTCAGATGTGGATCGCGCCATCGACGCTCTTGCAGAAGCACGC  
 CGACTTAACCCAGA ACTATGCGTCGATGGACCACTCAGTTCGACGCCCGCGTCGACCCG  
 GGTGTGGCGCGCAAGAAGATGCCAGACTCTGACGTCGCTGGCCAGGCAAATGTGTTTATC  
 TTCCCTGACCTGGAAGCCGGAACATCGGCTACAAAAC TGCACAACGCACCGGTACGCC  
 CTGGCAGTTGGTCCGATTCTGCAGGGCCTAAACAAACAGTCAACGACCTTTCCCGTGGC  
 GCAACAGTCCCTGACATCGTCAACACAGTAGCCATCACAGCAATTCAGGCAGGAGGACGC  
 AGC

>RXA01437-downstream



TAATGGCATTGGCACTTGTTTTG

>RXA01458-upstream

GCCATTAGAGTTCATATTTACCAATCTACAAGGCAACTATTTCTATTGCTACGATCCGA  
ACAACGCTGTAAGCGAACACAGGTTGTAGGGTGGATATTC

>RXA01458

GTGAATCGCCGAATCAAGACTCTGACGTGGGGTGCTATCCCTTTGGTGCTGCTGGCATCG  
TTGGTAAGCATTGACCATATTCGGGAACAAACATCAACTTGAGCGTGCCTTATGCCGCT  
GAAGGCCAGGTCTACGATCAATACGCTTGGTCAGGTCGACGGCGAGGATGTTGTGTCC  
ATCAGTAGTGCTGATCTGGATGAGACCGAAGGTAACCTGAACATGACCACTGTGTGCGTT  
CGTTCCGGCATGACATTGTGCGCAGGTAATTTCCCGATGGCTGTTTACCGATGACACAATC  
GTTCCCATCGAGCAGGTTTCCCTCCCGGCCAATCCACCGAGGAAGTCGAAGAATCCAAC  
CGCACCGCGTTTCATCTCTCGGAGTCTTCCGCAACGATCGCCGCGATGAATTACCTCAAC  
ATTCCCGTCGAAGTTGAAGTTGCAGAAGTCCTCACCAGACAGCGCCGCAACCGGAATTTTC  
GAACCCGGCGACAACTTCTCAGCATCGACGGCACCGCAATCTCCACTCCCGGCGATGCA  
CAAACCATCGTGCGATCGAAAGCTCCCGGCGATGAGATCACGATTTCTTACGAGAGAAAC  
GATGCGGAATCTCAAGCAACCATCACTTTGAGGGAACACCCGGATGATTCCTCGGTGGCG  
TTGTTGGGTATTTCAATGTTGTGCGGTGCCTTCGAGCGCGATTGAGGTTGATTACAATTG  
GAAGATATCGGTGGTCCGAGCGCTGGCATGATGTTTTCGTTGGCGGTGTCGATAAGCTT  
TCGCCTGGCGCGCTGAATGGTGGCAAGTTTGTGCTGGCACTGGCACCATCGCGGAGGAC  
GGGTGCGTGGGCGGATTGGCGGTATTGCGCACAAGGTGCGCGCTGCGGAGGACGCGGGC  
GCGGAAGTGTTTTTGAGCCCTGCGGACAATTGCGCGGAGGCGATGAGTGCGAAGCCTCAG  
GATATGACGATCTTGAAGGTGGATTGTTGTCTCAGGCAATCGATCAGATGGCTGCCTAC  
AACGAGGGCTCTGATTTCCAGACGTGTGGC

>RXA01458-downstream

TAGTTTTTAGACGCTGAGGTTTC

>RXA01461-upstream

TCGACTATGACGAGACCCGTGAAACTTCGCGCTTGGTTACAAGTTCGACATCGTCCTTC  
GTGGCCGCAACGCCACCCCATTTGAGTAAAGGGTTTTGCA

>RXA01461

ATGATTGATACAGGGAAGAACGGCGAGTTCGCTACGAGCAGTCGAATATCATCGATCAG  
AACGAAGCCGAGTTCGGCATCACTCCTTCACAGACCGTGGGCCCTTACGTCCACATCGGT  
TTGACCTTGAAGGTGCGGAGCATCTCGTGGAGCCAGGTTTCGGAAGCGCGGTGTCTTT  
ACTGTTTCCGCAACTGATGGCAACGGCGACCCCATCGCGGATGCCATGTTTGAAGTGTGG  
CAGGCCGATCCAGAGGGCATCCACAACCTCTGATTTGGATCCAAACCGCACAGCACCAGCA  
ACCGCAGATGGCTTCCGCGGGCTTGGTTCGCGCATGGCAAACGCGCAGGGTGAGGCAACG  
TTCACCACTTTGGTTCGGGAGCATTTCGAGATGAGGCACCACACTTCAAGGTTGGTGTG  
TTCGCCCCGTGGCATGCTGGAGCGTCTGTACACTCGCGCA

>RXA01462-upstream

TTTCGCGCGCATCTGACATGTTTCGCCCCGCGAACTACTTGTCAACGGCCTCAATCATCCC  
TACTTTGAGATCTATATCACTAGACGCAGAAAGGTCTCGC

>RXA01462

ATGGACATCCCACACTTCGCCCCGACGGGAGGCGAATACTCCCCACTGCATTCCCGGAG  
TACCGGACCACCATCAAGCGCAACCCAAGCAACGATCTCATCATGGTTCCCTAGTCGCCTC  
GGCGAGTCCACGGGACCTGTCTTCGGCGACCGCGACTTGGGAGACATCGACAACGACATG  
ACCAAGGTGAACGGTGGCGAGGCTATCGGCCAGCGCATCTTCGTTACAGGCCGTGTCTCTC  
GGTTTCGATGGCAAGCCAGTTCGCGCACCTTGGTTCGAGGCGTGGCAGGCAAACGCCGCA  
GGCCGTTACCGCCACAAGAATGACTCCTGGCCAGCGCCACTGGATCCACACTTCAACGGT  
GTTGCACGTACTCTACCGACAAGGACGGCCAGTACCACTTCTGGACCGTTATGCCAGGT  
AATTACCTTGGGGTAACCACCACAACGCATGGCGCCCGGCGCACATTCACTTCTCGCTC  
TATGGTCGTCAGTTTACGGAGCGTCTGGTCAACCAGATGTACTTCCCGAACGATCCATTG  
TTCTTCCAGGATCCGATCTACAACGCGGTGCCAAAGGGTGCACGTGAGCGCATGATCGCA

ACGTTCTGACTATGACGAGACCCGTGAAAACCTTCGCGCTTGGTTACAAGTTTCGACATCGTC  
CTTCGTGGCCGCAACGCCACCCCATTTGAG

>RXA01462-downstream  
TAAAGGGTTTTGCAATGATTGAT

>RXA01464-upstream  
CAAGGACGGCCAGGTTGCTATTCCACAAGGCCAGGTTTGGGCGTCGATGTGGACATGGA  
CAAAGTCAACTTCTACACCCGTAAATAAGGAGAATTATCG

>RXA01464  
ATGCTGTTTCTAGCACGCATGGACGTCGTCTTCCCTGATTCCATGGACGCCGATGTGATG  
GCAGATTTCCAGGCTAAGGAAAAGGCCCTACTCCGGAGACCTGCAATCCCGTGGAATCATG  
AAAGCAATCTGGCGAGTCGTGCGCGAGTATGCAAACCTACTCCATTTTCGATGTGATGAC  
CACGACGAGCTGCATGCAATTCTTAGTGGCTTTCGATGTTCAAATACATGAATGTCAAG  
ATCACTCCACTGGCAAAACACCCCAATGCTCTGGAGTATTACCTCAAGGGA

>RXA01464-downstream  
TAGTTGAGGTTCTAACCGCTCTA

>RXA01465-upstream  
GAGACTGGCGAGGATGGTAACCACGTTCACTACCCATTTCGTCTGGATAAGGAAGACTAG  
TTTTTCTACCTAGCTAGCATTGAAGTCCCAGCACATCTT

>RXA01465  
GTGGCGGGACTTTTCCCACTTAACCAGAAAGCCATAGAAAAATTGTCTGATTTAACCATC  
CAAAAAGTCGAATCCCGTATCCTCGACGTTCCCCTCATTGCCCCACACGGCTTCGCAACT  
ACCACCTCCACTGAGCAGCACATTCTGCTGGTCAGCGTGCACCTAGAAAACGGTGTCTATC  
GGCTACGGTGAGGGCGTTGTGCCCCGGCGGTCCATGGTGGGGCGGCGAGTCGGTTGAGACC  
ATGAAGGCGCTTGTCGACGGCTACCTCGCCCCAGTGCTCATCGGCCGTGCTGTCTCCGAG  
CTTGTCAGGAATTATGGCAGACCTTGAGCGTGTTGTTGCACGTGCGCGTTATGCCAAGGCG  
GCTGTTGACGTCGCAATGCATGATGCCCTGGGCACGCAGCCTCAATGTGCCCGTCCGCGAC  
CTGCTTGGTGCGACCGTGCGCGACAAGGTGGATGTACCTGGGCGCTGGGCGTTTTGCCG  
CTTGATGTTGCGGTGGCGGAAATTGAAGAGCGCATCGAGGAGTTTGGTAACCGTTCCTTC  
AAGTTGAAGATGGGTGCTGGCGATCCTGCGGAAGATACTCGCCGTGTAGCAGAATTGGCG  
CGCGAAGTTGGCGACCGCGTTTCTCTGCGCATTGATATTAACGCACGTTGGGATCGCCGC  
ACCGCTCTGCATTACTTGCCGATTCTCGCGGAGGCTGGCGTCGAGCTGTTTCGAGCAGCCC  
ACCCCGGCCGACGACCTGGAAACCCTGCGCGAAATCACCCGCCGACCAACGTTTCGGTC  
ATGGCAGATGAATCCGTGTGGACCCAGCTGAAGCTCTCGCGGTGGTGAAAGCCCAGGCT  
GCGGATGTTATCGCACTGAAAACCACTAAGCACGGTGGTCTGCTGGAATCCAAGAAGATC  
GCCGCTATCGCCGAAGCCGGGGCTGGCCTGCCATGGTGCAACAGTCTGGAAGGTCCA  
ATCGGCACCGCAGCATCCCTGCAGTTTGGCGCATCCACCAAGGCGATCTCCTACGGTACA  
GAACTGTTTCGGACCGCAGTTGCTCAAAGATACCTATATTGTCCAAGAATTTGAGTACAAG  
GACGGCCAGGTTGCTATTCCACAAGGCCAGGTTTGGGCGTCGATGTGGACATGGACAAA  
GTCAACTTCTACACCCGTAAA

>RXA01465-downstream  
TAAGGAGAATTATCGATGCTGTT

>RXA01466-upstream  
AATCCATGATCCCAAACCTCAAGCGCTTGTAGGCTAAGACTTATGGATACACAACG  
CGGCTCATTGCGGGGAAAAGCTCATAAAGCAAGGCTAAAG

>RXA01466  
ATGACGCCAAATGGTCGCAGGCAACTCCTCCTGGAGCGTGGCGCAGCATTTAGCAAAAAC  
CGTACCCCGGGTCTAAAACACGTCGACCGCCACACCATCGTGGACTCCGACGGCCTCAGC  
ATCCACACGTACATGGTTGGCCATGCCGAAAATGCCACGGCAACGGTCGTGTTTCATCCAC  
GGCTTCACCTCGCCGCCGAAGTGATTACATGCAGGTCGACTACCTACAAACCTTTTAC

CCAAATATTAAAAGCGTGCTTATCGACGCCCGCGGCCACGGCGCCACCGGCCAGATCCGC  
 CCAGAGCTCTGCACCATCGAAGGAACAGCGAACGATGTTCTCGCAGCCATCCACGAACAC  
 GCACCGACCGGCGCGCTCATTTTGGTTGGGCATTCCCTCGGCGGACTCACGGCACTTAAC  
 CTGGTTAAACGGGCAGATCACTCACTTCGGAAGAGGATCGTCGGCATGGTTCTAGTCGCC  
 ACATCGATCGAATCATTATCCACCCAAGGTCTACCACAAGTCTTGGCATCACCCCTTGCC  
 GACAACATCAAAAACGCCGTCGAAGCAGCCCCAACGATGCCCCAAAATTCGCCAATAC  
 GCCACCACATTTCTAGCCCCCACCCTGGCCACCGCAGTCTTCCAACGAGACACAAACGAT  
 GAAGTCATCGATTTCCACGCGCCATGATCCACGAAACCCCTTGGATACCTTCGTGGT  
 TTCTTCGACGACCTTCAAGAACACGACGAACCTCGATGCCGCACCAACATTGGAAGGCCTC  
 AAAGGCTACGTCTTTGCCGGCGAATTAGATGATGTACCCCA

>RXA01477-upstream

TAATTTGAATTAAGCCCTCTTCAATTTTCCGCTTTTCGCTGCGAGGTGTGCCAATGTGGCG  
 CATTATTTAATGCATACTCGGCGCTATTTTGAGGAGCCTC

>RXA01477

ATGCCACAGTTAAGCAGACGCCAGTTCTTGCAGACAACCGCCGTTACTGCAGGTCTAGCC  
 ACTTTTTCGCGGCACACCTGCACGCGCTGAAGAACGCCAATTCCAGCATGGCGTGGCTTCC  
 GGGGACCCACCGCAACCTCTGCCATTTTGTGGACTCGGCTGACCCCAATTCCCGACGCC  
 ACACCTGGAAGTGGCCTTGGCCCCGACTCTCCTGTACCTGGGAAGTCTCCCCACTCCT  
 GATTTTCGCCAGCATCACGCGCTCGGGAACCGTAATCACCTCCGAGCAAGCGATCACACC  
 GTCCACGCGCACGCCACGGTTTGAGCCCCATCCACCCGCTATTTCTACCGCTTCATCTCC  
 TCCACCGGCGAGGTCTCCCCCTGTGGGGCGCACGAAACAACATCGCTTGTGCGACGCTCCC  
 CTCCCGCACCTTCGCTTTGCCCTTGCCTGCTGTGCCAATTGGGAGGCAGGATTTTTTGCC  
 GCCTACGGCGACATCGCCCGGCGCGCTGACGCCGGCGAATTGGAGATGTTGATTTTTTTG  
 GGTGATTACATCTACGAGTACGCCACCGGTATGTTCCGCCGAAAGGACGGTGTGGTGCGC  
 CCGCATCAGCCTCTTCATGAAACCATCACGTTGGAGCACTACCGCACTCGTTATGGCCAT  
 TACCGCAGTGACAATCACTTGCAGGCAGCGCATGCGGCGTTCGCGTGATTGTATGTGG  
 GATGACCATGAGTCGGCCAACAACCTCTAATCGTGAGGGCGCGCAGAATCATTCCGCTGAT  
 GAGGGTTCGTGGGTGGATCGTCAAAATGCTGCTCGGCAGGTCTTTTGGAGTGGATGCCG  
 ATCCGCCAGGAGGACACGCTCTATCGTTCTTCACTTTTGGTGACCTCGCCACGCTGTCA  
 CTTCTTGATCTTCGAAGTTTCAGAGATCCAGCACCCCTCCAGCAACAGTGGCTGGAGGGT  
 CAACGTGCGGACACCATGATGGGGTTCGAGCAGTTTGAAGTGGCTGAAATCCAACGTGGAA  
 CACACCACACGACGTGGAATATCATCGGCAGCTCAGTGATGTTTGGCCCCATGGCAATT  
 ACCGGGCGAGCCTCTTTTCCAGATCCCTGAACCTATTCCCGCCAATTTGGATCAGTGGGAC  
 GGCTACTCCCGTGAGCGCGACCGACTCCTAGCTGTACTTGCCGATTTCCGCCACTCCAACG  
 CTTTTTCTATCTGGCGATATCCACTCCGAATGGGCAAACGCCATCCGGTTTAAATGGTCTGA  
 GAAATCGGTGTCGAGGCAGTATGCAGCTCCATCACCTCAGCTAATGTCAACGACTTCGCC  
 AAATCCCTCGAGGACAATCCGGTCTCCCTGCAAGCGGAACAAGTAATCCGAGCCAACAGT  
 TCGCATGTGCGCCACGTTGATCTTGACGCCCACGGCTACGCCACGGTGAATCTCACCCAA  
 GATGGCGCGCACATGGTCTGGCACCGCGTCGCCGATCTCTCCCTTCCGGACTCAGAAGTT  
 GCTCCGGCAATTGCACCTTGAAGTGGAAACAGGCGTCGGATTCACTACT

>RXA01477-downstream

TGAGCTGCTGATTTGTAGGTTTT

>RXA01498-upstream

CAGTGGACAACCTACTTGGCGGGTCTTAAATCAGCTGTGAAGGATTCTGCATAAGCTGGGC  
 ACCACACGAGCATCAGAACGCGAAACGAAGGTAAAAGCCC

>RXA01498

ATGATCAAACGTCTTCCTTTAGGTCCGCTGCCTAAAGAACTTCATCAGACTCTGCTTGAT  
 CTGACCGCAAATGCCCAAGATGCGGCGAAAGTGGAGGTTATAGCGCCATTTACTGGCGAG  
 ACCCTCGGATTTGGTTTTGATGGTGATGAGCAAGACGTCGAGCATGCTTTTGCACTTTCA  
 AGGGCAGCCCAGAAAAAGTGGGTGCACACCACGGCAGTGGAAACGGAAGAAGATCTTCCTG  
 AAGGTTTCATGATCTGGTATTGAAAAACCGTGAGCTGCTCATGGACATCGTGCAAGTTGGAA  
 ACAGGCAAAAAATCGAGCATCGGCTGCCGATGAGGTGTTGGACGTTGCGATCACACCCGCG  
 TTCTACGCAAAACATGCAGGAAAGTTTTTAAATGACAAGAAACGCCCCGGCGCGCTTCG  
 ATCATCACGAAAAACACACAACAGTATGTGCCCAAGGGAGTGGTCGGGCAGATCACGCCG

TGGAATTACCTTTAACTTTGGGAGTATCTGATGCTGTTCCGGCGCTGCTGGCAGGAAAC  
GCAGTGGTGGCTAAACCTGACCTCGCGACACCTTTCTCCTGCTTGATCATGGTGCACCTG  
CTCATTGAAGCCGGTCTGCCGCGTGATTGATGCAGGTTGTACCGGCCCTGGCGATATT  
GTTGGCGGTGCGATTGCAGCTCAGTGTGATTTCCCTCATGTTCACTGGATCCACGGCCACG  
GGCCGATCTTGGGTGCGACAATGGGTGAGCGTTTGGTGGGTTTCTCTGCGGAATTAGGC  
GGAAAGAACCCTCTTATTGTGGCCAAGGATGCAGATCTGGACAAGGTGGAAGCTGAGCTT  
CCGCAGGCGTGTTCCTCAACTCGGGGCAATTGTGTGTCTCCACTGAACGTATTTATGTC  
GAGGAAGACGTGTACGAGGAGGTGATTGCACGGTTTAGCAAGGCGGCGAAAGCCATGTCC  
ATTGGTGCCGGATTTGAGTGGAAATATGAGATGGGTTCTGTTGATCAATCACGCGCAGCTG  
GATCGGGTGAGCACCTTTGTTGATCAGGCTAAAGCTGCGGGCGCCACGGTGCTGTGCGGT  
GGCAAGTCACGCCCTGATATTGGTCCCTTCTTCTATGAGCCACGGTATTGGCGGATGTC  
CCAGAGGGCACCCCACTGCTCACGGAGGAAGTCTTCGGGCGGGTGGTGTTCATCGAAAAG  
GTAGCCACACTGGAAGAAGCCGTCGATAAGGCAAATGGCACGCCCTACGGCCTGAATGCG  
TCCGCTTTTGGGTGCTCGGAAACCGGCAATCTTGTTCAGGCCAGCTGGAAGCTGGCGGT  
ATCGGTATTAATGATGGCTACGCCGCGACGTGGGCGAGCGTGTCCACGCCTCTGGGTGGC  
ATGAAGCAGTCGGGGCTGGGGCACCGCCATGGTGCGGAGGGAATTACAAAATATGCGGAG  
ATCCGAAACATCGCGGAGCAGCGCTGGATGTCTATGCGTGGGCGGCGCAAAATGCCGCGA  
AAGGTGTACTCAGACACCGTGCCACAGCGCTAAAGCTGGGCAAAATCTTTAAAGTTTTC  
CCG

>RXA01498-downstream  
TAGCAAAAAGCCGGACCCCTTGCT

>RXA01499-upstream  
GCAGCAATTATCTCCACCGAAGAGGACTAAATATAACGTGGCATTGAGCAGTGTCCAGC  
ACAGTTCTGAGATCCGCCAGGCGCCCCGAAGCGTACT

>RXA01499  
TTGTGGGACGTCTTAGAATCCGTCGCGCTCTACTTATCCTGAGGCAGCAGCTATTGACGAT  
GGCCAGGTGTTGACCTACGCAGAGTTGATGGAAGAAGTACCGCGTTGGCTGATTCCATT  
CATGCACAGGGCATTCGCGTGGTGATCGCATCGGTATTTCGCATGCCGTCTGGTACGCGT  
GACCTTTACATCGCTATTTTGGCCACTCTCGCTGCTGGTGCTTACGTGCCAGTTGAT  
GCAGATGATCCTGAAGAGCGCGCCGAGATGGTGTGGTGAAGCAAATATTAATGCGCTT  
TTCGACGCCACCGGCTTCCATATGCTTCGCCCCACCGCGGGCGGCGATACCCGTAGACCA  
CGCTTGGATGATACGGCGTGGATTATCTTTACTTCCGTTCCACCGGCAAGCCTAAGGGT  
GTGGCTGTGTCCACCGTTTCAGCTGCGGCTTTTCGTGGATGCCGAAGCACAAATGTTCCCT  
GTCGATCACCTTCCGGCCCCCTTGGGCCAGAAGACCGAGTCTTTCGGGGATTGTCTGTA  
GCCTTTGACGCATCTTGTGAGGAAATGTGGTTGGCCTGGGGCCACGGCGCTGCTTGGTG  
CCAGCACACGCTCCCTAGTCCGTTCCGGTATGACTTGGGCCCATGGCTGATTTCGCCG  
GACATCAGTGTCTCTCCACCGTCCCAACTCTGGCTGGTCTGTGGCCAGCAGAAGCATTG  
TCACAGGTCCGCTTGCTCATCGTCGCGCGGCGAGGCTTGCTCGCAGGAGCTCGTTGAACGC  
TTATCGACGCCTGACCGCGAGGTGTGGAACACTTACGGCCCCACCGAAGCAACGGTGGTT  
GCCTGTGGCACTCAACTCTATGCTGGTCAGCCAGTGGGCATTGGTTTGGCACTTGCTGGT  
TGGGATCTTGTGTTGTGTCGACGATGCCGGCGAACCTGTGGAATCGGCGAGGTGCGCGAA  
TTGGTCATCGGTGGTGTGGGTCTTGACGCTACCTTGATCCAGAAAAAGACCGCGAGAAG  
TATGCGCCACTGAAGTCTGTTGGTTGGACCGCGCTTATCGTTCCGGTGACCACGTTCTGT  
CTGGAAGAAGATGGCCTCTACTTTGTGGGCGCGTTGATGATCAGGTGAAAATCGGCGGT  
CGACGCATCGAGCTCGGTGAAGTTGATGCCAATGTGGCAGCGCTTTCCAACGTTCTGTTCC  
TCCGAGTGGTTGTTTCAGACCCTGGTGCGGATCAAAAAGTTCTGGTTGCATACGTTTCT  
TTGGAAGATGCTGCAGCTGGATTGATCACAACGTGCGGACTGCCCCACTACCGGAAACC  
ATGCCTGCTGCTTTGGTTCCGCGCATTCACGTGATGGATGATCTGCCTGTCACCACCTCC  
GGCAAGGTTGATAAGAAGTCTTTGCCGTGGCCTCTTCTGGCACCGTGGTGGAAAGCTAAT  
GACCTCAGCGCAACGGAAGCGTGGATTGCTCAGGAATGGGTGATATCCTCGGCACTTCT  
GTGAGCAGCAAGACGCCGACTTCTTCTCCCTTGGCGGTACCTCTCTCGCGGCTGCGACT  
TTGGTTGGCCGGGTACGCGCAAAGGTTCCACCGCTGCGGTGCGTGATCTTTACGATCAC  
CCTCGCTTGGAGAAATTCGCCGAGCGTGTGAGGCTATCGCCGCGGACACTGGCATTCT  
TTGGAGGCGCCAAACCAGGTGGAGGAGCGCGTGTCAAGCCTGTTTCTTTGGCACTCGT  
GTGATGCACACCTCATCCAGATTCCGATCATGACGCTGCAAGCAGCACAGTGGATTGCA  
TGGTTGCTGTTGGGCAACAACATCATGGCAGCGCTTGATTTGATTGGGCTGTTTCATGTC  
TCCTGGTGGCTTGTTCATCGGCATGATTTTGGTGTTCGCTACCCCGATTGGTCGCTTGCCG

ATCGGCGGTTGGGGCGCCCGCATCATCACCCGTGGCATAACTCCTGGCTCCTACCCTCGT  
GGCGGTTCCACTCACCTGCGCATTTGGTCCGCGGAGCGCCTTGCTGATGCCTCTGGCTCT  
CGCAATATTTCTGGCGCAACCTGGGTGAACTACTTCGCGCGTTCCCTGGGTGTGAAGATG  
GGCAAGGGCGTGGATCTTCACTCCCTGCCACCAATCACTGGCCTTTTGACCTTGGGCAAC  
AATGTTTCCATCGAGCAAGAAGTTGACCTTCGTGGCTACTGGCTCGACGGCGATATCCTG  
CGTGTAGGCACCATTTAGGTCCATGACAACGCTCGCATCGGCGCTCGTTCCACCCTGCTT  
CCCGGCACCGTGGTGGGCACCGGCGCTCACCTGCTGCCTGGTTCAACAGTGACTGGTGAT  
AAGACCATCAAGCCTGGTTCTCGTTGGGCTGGCTCCCCTGCACAAAAGGTGGGTGCTGCA  
AAGCACCGGTTCCCAACCTCCCATCCTCCACGCAGGTCCCGGTGGGTTCGGTGTTTCGGC  
GCGACCTCCATCGTGTTGTGCTGCTGCCACTTCAGGCTCTCGCTATTGGCGCTGCTATC  
ACCTTGTGGCTGGCCACGATTAGCCCCGCTTCCACTGATCTGGGGTGTGCTGGTTTTTGCT  
ACCGTCGGCGCGTGGCTGCGTTCTTTGCTTACACCGTGACCATCTGGGTGCTTGTCCTG  
TTGATCCAGATCGGCATCAAGGGCGGCACCGCACCAGTGAGGTCCCGTCTTGGTTGGCAG  
GTCTGGGCAGTTCAACGCCCTCATGGACGATGCCCGCACCTATCTCTTCCCGCTCTACGCA  
TCCCAACTGACCCCACTGTGGTTCCGCGAGCTTGGGCGCGAAGATCGGCAAGGATGTTGAG  
ATCTCCACCGCGGTGATGGTTCCCTAAACTGGCTGATATCCGCGAAGGCGCATTCCTGGCC  
GATGACACCCTCATCGGTGGCTATGAGCTGGGTAATGGTTGGCTGCTCAGTGGTGAAACC  
CGCGTGGGTAAGCGTTCCTTCATTGGTAACCTCTGGCATCGCAGGACCTGAGCGCAAGCTC  
GCTAAGAACTCCCTGGTTGCAGTGCTCTCCTCCACCCCGAAGAAGGCTAAGGCCAACTCC  
AACTGGTGGGGTTCCCCTCCAGAGCGCATGCGTCTGTCACTGTGCAAGTTGATGAGGGC  
GAAGCAAAGACCTACAGCCCTGGCTTTGGTGTGAAGTTTGCACGTGGCGCGGTGGAAACC  
GCACGTCTGCTTGTCTCCAATAACCTCTGGTGTGTTGGCTGCGCTGTCACTGCTGCTCATG  
CAGTACCTGCTCACTGAGTTCAACATGTGGATCACCTGGTTGCTTGGCGGACTGATCCTC  
ATGACGGTTGGTGTGCTCGCCATGGGCATTACGGTTGTGATGAAGTGGGTTTGCCTCGGC  
AAGCATAAGCCGTCTGAGCACCCCTCTCTTCAGCCGCTTTGTGTGGCTGAATGAGCTGCAA  
GATGCGTTCTGTGAATCCGTGGCTGGCCCATGGTTCTCGTGCCCAACCTGGGCACCGGC  
GCGCTGAACGCCGGCATGAGCGCGCTTGGCGCACACATCGGCCGTGGCGCATGGATCGAA  
TCCTACTGGCTGCCGGAACCGACCTCTGCTACATCGGCAAGGGCGCAACCGTGGGCCCT  
GGCGTGGTCTGTGAGACCCACCTCTTCCAGGACCGCGTGATGAGCCTAGATACGGTGACC  
GTCGCTGACGGCGCCACCCTAGCGGACCACTCCGTTGCCCTTCTGCTTCGCTTATCGAC  
GCCTCCGCCACCATCGGCCAGGCTCGCTGGTGATGCGCGGCGACAAGGTACCAGCGCAT  
ACCCGCTGGCAAGGCAACCCAATTGAGCCGTGGAGCAACTCT

>RXA01499-downstream  
TAAATAACAACAATCAGCCGGAT

>RXA01502-upstream  
GCTCGCCGAGGGTTTCGGCCTTTTAACTAGCATGGTGTATAGATCCATGCGGTTCGACCTT  
GCGCCTGACCGTCCACTTTTTAGGGACTAGGAGTACAGC

>RXA01502  
ATGAGCACACCACAAAGCATCGTCATTATCGGCGGCGGTTTAGCCGGAGCGAAAACCGCA  
GAGGCACTACGTGTAAACGGGTATGAAGGCTCCATCACGCTCATCGCAGCAGAGGATTAT  
CTGCCATATGAGCGCCACCGCTGTCAAAGGAGTACATGGCTGGAAAAGTGGGCTTTGAC  
AAGGCGATTGTTACCCGCGCGAGTGGTACAAAGAAAACAATGTCACGCTGCGTCAAGGT  
GTGCGTGCAACGGCAATTGATGCGGGTTCACGCCAAGTACCCGTTGATGATGGCGGAAAC  
ACTGAGACCATTAACTACGACAACTAGTTCTTGCTACTGGATCAGCAGTGCGCAAACTT  
CCAATTCGGGAGCCGACGCCTCTAATGTGCACTACCTGCGCACCGTGGAAGACTCTGAC  
GCGATCAAGGCAACCTTCGGTGAAGGTAAAAGCTGGTCCTCATCGGTGGTGGCTGGATC  
GGACTCGAAGTCGCATCAGCGGCACGAGGAGCTGGCACTGACGTCACTGTTTTGGAAGGT  
GGAAAGCTCCCACTTTTGAAAGTCCTTGGTGAACGGTTCGCGCAAGTCTTTGCCGATCTG  
CATGTGGCAAACGGCGTTGACCTGCGCACCGAAGTGAATAATTACGGACATCGTCACCGAA  
GATGGACGTGCAGTTGGCGTGCAGCTTGATGACGGCGAAGTGGTTCCCGCAGACGCAGTA  
GTCATTGGCATCGGTGTCAACCCAGTGATTGACCTAGCGGAAACTGCTGGACTGGAAATC  
GACAATGGTGTTTTGGTGGACGCAGCACTGCGTACCAGCGACCCGGATATCTACGCAGTT  
GGAGACATTGCGAACCACGATCACCCAGTTCTAGGACACCGCATCCGCGTGGAGCACTGG  
GCCACCGCGTTGAATCAACCTGCGGCTGCGGTGAAATCCCTACTTGGCAAAGACGCCGAG  
TTTACCAACCTTCGGTACTTCTTTACAGATCAATTTCGATCTGGGTGTGAATACGTCCGC  
CACGCCACCGGTTTCGACAGGAGAAGGTATTTCATCCGTGGAAACCTTGAAACACGAGAATT  
GTCGCCTTCTGGGTGATACTGAAAACCGAATTCTCGCCGCAATGAACGTGAATGTGTGG

GATGTTCTGATCAAATCAAGCCTCTCATCGCATCAGGAAAGAGCGTTGACACCGAGAAG  
CTAGTGGATCCAGAAGTTCCGTATTCAGAGCTC

>RXA01502-downstream  
TAAGCAGTGTGTTTGATGGCCGC

>RXA01509-upstream  
TTCCAAAATTTTCGAGGATTTCCTTGCCCCGGGTCTCGTTTATTTTTGAACACGCTAGAA  
TTCAAGGGCAGTAATAATTCAACCCGGGAGAAATACCT

>RXA01509  
ATGAGCATCGAAGTAACCGTCGAAATCCCTAAGGGATCACGCAACAAGTACGAAATCGAC  
CACGAGACCGGAAAGGTCTACCTCGACCGCTACCTGTTCACTCCAATGGCATACCCACTG  
GACTACGGCTACATCGACCACACCTCGGCGAAGACGGCGACCCATTGGATGCACCTGGTC  
ATCCTCCCCGAGTCCGTTTTCAGCAGTTGTGGTTAAGTCCCGAATCATCGGTGTTTTTC  
AAGATGACCGACGAAGCCGGCGGCGACACAAGCTGCTCTCCGTTCTCGACGACCCACGC  
TACGACCACATCCAGGACATCTCCGACGTGTCCGATTTCTCAAGGATGAGATCGAGCAC  
TTCTTCGTCCACTACAAGGACCTGGAAAAGGGCAAGCACGTTGACGGTTCCGGCTGGGGC  
GACAAGGCTGAGGCTGAAAAGATCCACGCTGAGGCAATCGACCGCTACAAGGCA

>RXA01509-downstream  
TAAGTCTTTTGTAATTAAGAGC

>RXA01510-upstream  
CCGCGCGTATGGTTCGTGCGTGAGACGACGGTCGATATAAGGTTGGAGTCTTGATATCGC  
AAGAAGAATCGCAAGAAAATTTGCAGGAGAAGGAGCGCCC

>RXA01510  
ATGAAAAATGCGTGGTGGGTGGCTCATCGGTTGGTGTACTGATTGCAGTGGGGGCTGTC  
ATCGGTGGTGGCGTGTGGGTGAATCATTCTGGTTTTGGTTGGATCACCCGAGCCCATG  
TCGGTGGAGATGCTGAGCAGCTGTTTTCTTCTGCGATTGATCCGGATGCTTTGGAAGCC  
CCAGATTTTGCCACTTTGGAGAAGGATTTGACCTCGCAGGCTGCGGATTCTCGGTGGGC  
ACTTTTGTGCGGTGTGCCAGGGATGTGGAATCTGGTGAGGTGGTGTGGGAGCAGAATCAG  
GGGACTGCGGTGAGGCCGGCTCGGCGACGAAGATTTGACGGCGGCGGTGGCGTTGTAT  
GAGCTTGGCCGTGAGGACACCATCACAACGAAGTTGTTGAGGGGGAGCAGCCGGAACG  
GTGGTGATTAAGGCGGGTGGTGATGTCACGTTGAGTGAGGAGATGCTCGATGATTGGCC  
ACCCAGCTTGAGGGGCAAGATATTGGCACTGTGTTGATCGATACGTCTATTTGGCCTGAT  
GAGGGCTTTGCTAGTACGTGGGATCCAGTGGATGTTGATGCTGGTTATATCGCTGATGTG  
GAGCCCGCGATGATTGAGGCTGCCCGCATTTGGTGGGTGCGAGGGGGATCTGCCGAGGTCT  
CATACTCCGGCGTTAGATGTTGCGCAGGCGTTGGCGGATCGTGTGCGCGCGGACACCGTA  
GATGAGGGCAGCGCTCCGGACAAAACCGTGCTGGCATCCGTGGAGTCTGACACGTTGGAT  
CAGCGTCTTGCTCGGATGATGAAGGATTCTGACAATGTGATGGCAGAGGGTATCGCTAAG  
GAAGTGGCCGCGTCGAAGGATTTGGCTACCGATTCCGCGAGTACCTCGAAGATGACGTTG  
GAGATTCTCAAGGACAAGGGCTTCGATTTGAGTGGCGTGTCCATTGTGGATAATTCGGGT  
TTGAGCTTTGACAACCTCATTACGCCCCGCTGCTTGATGATATTTTGACCCGCGCCGCC  
ACGGAACCTGAGTTGAGTTCATTATGACATCGCTGCCTATCGCGCATGGAACCGGAACC  
TTGGAGGATCGCTACGACGGACTCTCAGGTGCGGGTTGGGTGCGGGCGAAAACCTGGCACT  
CTGACGGATACATCGGCATTGGCAGGGGTGGTGACCTCGGAGTCGGGGCGTGTGTTTACC  
TTTGCTTTTGTGTCTAATGTTCCGCGATTGTGCCGGCGCGTGAGGCTTTGGATGAGATG  
GCGTCGATTCTGAGGGACTTT

>RXA01510-downstream  
TAAGGTGGCATCCCTCATCGGGA

>RXA01511-upstream  
GGGCGTGTGTTTACCTTTGCTTTTGTGTCTAATGGTTCCGCGATTGTGCCGGCGCGTGAG  
GCTTTGGATGAGATGGCGTCGATTCTGAGGGACTTTTAAG

>RXA01511

GTGGCATCCCTCATCGGGAATCTTGAGCTGCCTAGGGTAAGCCCTAATTTCTTGGAATTA  
CGCAAGGCGGTGCGCCCTTACCTGAAAGAGCATGTGCACATTGGGTTGTCGGGCGGGCCG  
GATTCATTGGCGCTGGTGGCTGCTGTGCTCGCGGAGAAATCCCAGGTAACGGCGATTGT  
ATCGATCATAATCTGCAGACCGGTTCTGCTGAAGTCACGCACAACGCTGCTGCGATGGCG  
CGCCACATGGGCGCACAGGCGATCGTGAAGAGCATCGAGGTGCGCGCCGGGGAGGGGATG  
GAGGCCGCCGCCAGGGAGGCTCGGTACGCGGCTTTTGCGCAGCTCACCGATGAGATTTGG  
GTGGCGCACACCATGGATGATCAAGCCGAGACCTATCTCCTTGGCGGTTTGCGGGGGAAT  
CCCGCGGGCATGAAAGATGCTTCTCGACGCCCCGAGCTATCCATTATTCGACCCCTTCTG  
GGGGCTCGGCGTGCGCACACGCACGGGGCGTGCGTGGAGTTGGGTTGAAACCGTGGCAC  
GATCCGCAAAATTTTGACGATGCCTTTTCGGCGGGTAGCCATCCGAAACCAGGTGATTCTT  
CTTCTTGCGCAGGTGCACGGGGGAGACCCTGTACCTGGTTTGGCACTTGCGGCGCGACGC  
GCTGTGGAGGATGCCGAAGTGGTGGAGGGCGACGTGAGAAGCGGCGTTTAGAGTGGCAG  
GACGGTTTTCTGTGACGTTGGCCGGGGAACCTACGGGCCTTAGGCGACGCATGTTGGCG  
GATTTTTTGGCGTGGGGAAGGCATCGCTGTGACCTCGAGGAACTCGACGCCATTGACCGA  
TTGCTCACCGATTGGCGCGGACAGGGTGGCGTAGCCGTGGGTAAAAGCGATAATGGAAGG  
TTGGAAGTGGTGCGGCAAGTGGCAAGCTTAAGATCACTGAT

>RXA01511-downstream

TGACACCTGAATCTACAACACAA

>RXA01513-upstream

CCCTCAACTTCGTTTGATTAGTTGTCTAGTAGATCCCTTTTTATTTCGATTCCGAGAAAGGC  
ACGGGCAAAACGGCCTTAGTTGAGCCGGTTGCCACTGCGT

>RXA01513

ATGAAAAACAAGAAATACCTGCAGTTTCGGCGGTATCGCAGCCGTAATCCTCATCGTTCTG  
TTCTTGGTGTCCCTGTTTAGCAGTGACACCAGGAACCTCCAGGAGGTCGATACCTCTGTT  
GCGATGGCACAGCTTGACGCCGGAACGTCGCCGAAGCTCAATTCGATGACAGGGAACAG  
CGCGTCCGACTGACCTTGCGTGAACCCATCACGGTGGATGAACGCGAAGGCGTTGAAGAG  
ATCCTCGCGCAGTACCCAGCTCGTACCGCGCCAGCGATCTTTGAGAAGGTGGAAGCATCC  
AACACTGATTCCATACCAACCAATGTGACCGAGGAGAGCTTCTGATGTCCATGCTGAGC  
TTCATCCTGCCGATGGTGATCATCTTCGGTTTGCTGATGTTCTTCCTCACCCGCATGCAG  
GGTGGTGGCATGTTTGGCATCGGTGGATCCAAGGCCAAGCAGTGACCAAGGATATGCCC  
ACCAACACCTTCGCGGATGTTGCTGGCGCTGAAGAAGCAGTGGATGAACCTCATGAGATC  
AAGGACTTCCTGGAAGACCCACCCGCTACGAAGCCCTCGGAGCGAAAATCCCTCGTGGT  
GTGCTGCTTTACGGCCCTCCCGGTACTGGTAAAACCTGCTGGCTCGTGCCGTAGCTGGT  
GAGGCTGGCGTGCCGTTCTACTCAATTTCCGGTTCTGACTTTGTGGAATGTTTCGTGGT  
GTTGGTGCCTCGCGTGTGCGTGATCTGTTAAGCAGGCCAAGGAAAACAGTCCCTGCATC  
ATCTTCGTGATGAGATCGATGCGGTTGGTTCGCGCCCGTGGCTCAGGAATGGGTGGCGGA  
CACGATGAGCGGTGACAGACCTGAACAGTTGCTCGTTGAGATGGATGGCTTTGGTGAT  
CGTCAAGGCGTCATTCTGATGGCTGCTACCAACCGCCAGATGTTCTTGACCCAGCGCTG  
CTGCGTCTTGCCGTTTCGACCGCCAGATCCAGTCACCAACCCGTGACCTACGCGGCCGT  
GAACAGATCCTGGAAGTTCACGCCAAGGGTAAGCCTTTCGCACCCGATGCAGATATCAAG  
GCATTGGCAAAGCGCACCGCCGGCATGTCCGGCGCTGACCTGGCAAACGTGCTTAACGAA  
GCCGCGCTGCTAACCGCCCGCGTGGGTGGCAACGTGATCACCGCCGACGCTCTGGAAGAA  
GCAACCGACCGCGTTGTCCGTGGACCACGTGCTCCGGCAAGGTGATTTCCGAGAAGGAA  
AAGAAGGTACCCGCTTACCACGAAGGTGGACACACCCTGTCCGCATGGGCGTTGGAAGAC  
ATCGAGCGGTCTACAAGGTACCATCTTGGCCCGCGTTCGCACCGGCGGTACGCCATG  
ACTGCCCAAGAAGATGACAAGGGCATGTACAACCGCAACGAATTGTTCCGCCGCTGGTC  
TTTGCCATGGGTGGACGCTCCGCGGAAGAACTAGTCTTCGGCGAACCACACCGGCGCC  
TCCGCCGATATTGAAATGGCCACCAAGATCGCCGATCCATGGTGACCGAATATGGCATG  
TCCCCAGCTGTCGGCATGGTGAATACGGCCAAGAACAGGGCGACCCATTCTCCGGACGC  
GGTGGCGGTGGAACCTTGGACCACTCCCAAGAAGTCGCAGCAACCATCGACACCGAAGTC  
CAGTTCTCTGGACAAAGCCCATGAAGTGTCTACTCCATCCTGGCTGAATACCGCGAC  
CACCTGGACCGCTCGCGGAAAACCTCTGGAAGGAAACCTGCGACGCCAGACCTC  
GAAGCGCTTTTCGACGACATCGTCCCACGCAAGGTGCGCGAAGTCTTCCCCGACGAGTCC  
ACACGATTCCCTCGCCAAGAAAACCGCGAACCAGTAAAAACCCAGTGGAGCTCGCACTG  
GAACGTGGCGAAGAACCAAGAAAGTTCTCCATTCTTGAGGCCTCCCGCGCAACCCGC  
GAACGCCGTGCAAGGAATTGGAAGCTCAGGGTAAGTTGCCGGTGCAGCCTGCGTCTTCT

GCCGGCGTGGCACCTGCGGCCGGAGCAGCTGCCGGATCCTATGGCACCCACCTCCAGCT  
 GATTGGAGCGTGCCCGGTTCCGCTGGAAAGCACCGCTCACGTGCAGAAGAACAGCCAGCT  
 GAGCAGGGCTTCCCGGCTCAGACCCCGGCACAAGCTCCTGAGCAGTCCCCTGATTCAAGT  
 GGCGGCCGCCCAACCCTTACGCGACTCCAACCGCATCCGGTGAGCACCTGGTATGAAG  
 GCCTATGGCTTCCGGCGATTCCGAACTCATGGACCAATCAACAGGTGCGGAACATACCCCA  
 GGTAACGTTTACAGGAATCCCCAACCGAAATGATCGGGTCCGTTTGCCGGATCATGAA  
 CGTTCGGAATACCCAGAAAAGGCGCAAAAAGAGTCGGTGCTGGATGCTTCTGAAACCACA  
 GAAATGCCTGTGCTTCCAGATCAGCCCATCGATGGTGATTCCGGGAAGTCCGCTGAGGGC  
 ACACAGGAGAATCCGGAAAATGAAGGAGACAACCGTGGA

>RXA01513-downstream  
 TAACCACGCTGCAGTTCGCGAGT

>RXA01589  
 TATGCAGAATTAGGTGTAAAAAATACGCATTACAGGTGGAGAACCATTGATGCGACGC  
 GATTTAGATGTACTTATAGCTAAATTAAATCAAATCGATGGTATTGAAGATATTGGTTTG  
 ACTACAAATGGTTTGTATTAAAAAAGCATGGACAAAAGTTATATGATGCTGGGCTACGC  
 AGAATTAATGTCAGTTTGGATGCTATTGATGATACGCTATTTCAATCAATCAATAATCGT  
 AATATTAAAGCGACTACGATTTTAGAACAAATTGATTACGCGACGTCTATTGGTTTGAAT  
 GTAAAAGTAAATGTTGTTATACAAAAAGGTATTAACGATGATCAAATCATACCAATGCTT  
 GAATATTTTAAAGATAACATATAGAGATTTCGATTTATAGAATTTATGGATGTTGGTAAT  
 GATAATGGATGGGATTTTCAGTAAAGTTGTAACATAAAGATGAAATGCTTACAATGATAGAG  
 CAGCACTTTGAAATCGATCCTGTAGAACCAAAATATTTTGGGGAAGTAGCAAAATATTAT  
 CGCCATAAGGATAATGGTGTTCATTTGGTTTGATTACAAGTGTTCACAATCATTTTGT  
 TCTACATGTACACGCGCAAGGCTGTCATCAGATGGGAAGTTTACGGATGTTTATTGCA  
 ACTGTGATGGATTTAACGTTAAAGCGTTTATTCGTTCTGGCGTGACCGACGAAGAATTA  
 AAAGAACAATTTAAAGCTTTATGGCAAATAAGAGATGATCGATATTCAGATGAGAGAATC  
 GCTCAAACAGTTGCCAATCGTCAACGTAAAAAGATAAACATGAATTATATTGGTGGT

>RXA01589-downstream  
 TAATGTGTAGGGACCACTACATA

>RXA01603-upstream  
 GTCGAGAGCTGTAAAGTCAAGGCTATATACTTCTCAAGTCGCGCCGAAATTTGTTAAATG  
 ACTATAAAAGGCAGTCCTAGTCAAGGAAGAAGGTTTGAAT

>RXA01603  
 GTGAGTGATGCAGGGAAGAAGGACTCTTCCAAGGTGGAGATCGGACTGACCGGTCGACCC  
 CTGCGCGAGTTGCTGAGCCATCTCCTTTGGAAAAACATGGCCAGCAACGATCATTGCC  
 ATGGCGAATCAAAAAGGTGGCGTTGGTAAACCACGTCCACCATCAACCTCGGAGCATGC  
 CTTGCAGAGGCGGGACGTAAAGTCCTGCTCGTTGACTTGGATCCGCAAGGTGCGTTGACT  
 GCTGGTTTGGGAATCCACTACGACGACGTGGATATCACCGTGTATGACCTCATGGTGGAC  
 AACAATTCCACCATTGATCAGGCGATCCACCACACTGGTCTTCCTGATCTGGATGTCGTT  
 CCTGCAATATTGACTTGTCCGCTGCAGAAATTCAGCTGGTCAATGAAGTTGGTTCGTGAA  
 CAAACACTTGCCAGGGCGCTGCGTCTGTATGAAGGACTACGACTTCATCATCCTTGAT  
 TGTCAGCCATCACTTGGTCTTTGACGGTGAACGCTTTGGCGTGCGCGCACGGGGTTATC  
 ATCCCGATGGAGTGCGAGTACTTCTCACTGCGTGGCCTCGCATTGCTCACAGACACCGTG  
 GAAAAAGTTGCCGATCGGTTG

>RXA01607-upstream  
 GGGCTGAAGGGCTGGGCGGAACAATAATTATTGAATCTACAATCGGATCGGGAACCTGGAA  
 TTTCCGCCCCGTTTTCCCTATCCACAAAAGGACCAAGATAA

>RXA01607  
 GTGATCCGTATTCTGTTGGCTGATGATCATCCCGTTGTTTCGCGCAGGCCCTTGCTCCTTG  
 CTGGTGAGTGAAGATGATTTTGAAGATAGTGGACATGGTGGGCACCCAGATGATGCCGTT  
 GCGCGCGCCGCGGAAGGCGGGGTGGATGTGGTGTGATGGATCTGCGTTTTGGTGATCAA  
 CCAGGCATCGAGGTCGCCGCGGGGTAGAGGCAACGCGTCGCATCCGTGCGCTGGACAAC



CCGCCACAGGTACTGGTGGTGACCAACTACTCCACAGACGGCGATGTGGTGGGCGCAGTA  
TCTGCTGGTGCCGTGGGGTATTTGCTCAAAGATAGCTCCCCAGAAGATCTCATTGCCGGT  
GTTTCGCGATGCCGCGCGGGGAGAATCAGTGCTTTCAAAGCAGGTGCCAGCAAGATCATG  
GGGCGGATGAACAACCCCATGACTGCTCTCAGTGCCAGAGAAATTGAAGTGCTGTCTTG  
GTGGCGCAAGGGCAAAGCAATAGAGAAATCGGCAAGAACTTTTCCTCACTGAGGCCACG  
GTGAAAAGTCACATGGGGCATGTGTTCAACAAGCTGGATGTCACCTCTAGAACAGCTGCG  
GTAGCTGAAGCCAGACAGCGCGGAATTATC

>RXA01607-downstream  
TAGACGCACACGTGTTGGTAACC

>RXA01608-upstream  
ACAGCGCGAATTATCTAGACGCACACGTGTTGGTAACCGATCACACCAGCGCACGCTGC  
TAATCTTCACTCCATGAACAAGGTGCAGCGCAGGTCACTG

>RXA01608  
ATGGCGTTGTGCATGACGGTGGCATTGCTGGAGGAAGCCTGACCGCGTGACACCTCGT  
CCTGATACCGCAGACCCCATCGCAGAGGAATTCCTTCAAGCTTGGGCATCGCAAGATTTT  
GACACTATTGCGGACATCACCGACCAAGCTGACCTTGCCACAGAAATGCTCAGCACCAGT  
TTCGATGGTCTGCAAGCAGACAGCGTTGAACTGACTTTGGATTCCGTGGATTCCCGGGAC  
ACCATCGCCACCGCCAAATTTCTCCGTGGTGTGGAAGCTTCCCGAGACAGAGAAGTTTCC  
TACGATCATCGATGACGCTGACCAAGATGCGCAACGAATGGACAGTGCGTTGGGAACCT  
TCCCTCGTGCAACCCAACTGGGCGCCAAACCAGCACCTGGAATTGCGCGCCATTGAAGCG  
CAGCGAGCCAACGTAATTTCTCCGATGGAGCTCCGGTTCTCGCGCCGGGAAGTATCTAC  
CGAGTTTTGGTTGATCCCAGCGCAGGGGATGCCGATGTGGTGGTCAAGAGGGTGGCAGAT  
TATTTGAATGAAGCCCATGCGACTGATGAGAATGTGAACACCCTTGATGTGCAAGACATT  
ATGAGCAATCTTGGCGATTCCACCTATTCACTCACCACAGTTGATGCCAATTTGGGTGCC  
CGCATGGAACAGGATCTAGCGGGGATTCGGGGGCTGACGTTCAATGAGGAAGCATCCATG  
GTAGCCACCGACCCAGGTTTTGCTCCGGATATTGTGTCTCGCGTTGCGCGCATTGTGGAA  
GATGAATTAGAAGGATCCAATGGTTGGCGCGCCTCCATTGTCACTTCCAATGGTGGGTG  
ATTGATGATATCGCTACGACGCCCCAGAGCTTGCCCCCAGCGTGAGGATCAGCCTGGAT  
CACAACGTTCAACGAGCAGCGGAAGAAGCCGTAGACCTGCGCGCTGAGATGAAAGCCATG  
ATGGTGGTTCATGAGGCCATCCACTGGTGAAATCCTCGCAGTGGCCCAAACAGATGAAGCT  
GACAAAGACGGCGATGTTGCGCTGATGGGACAATACCCACCGGGATCGACATTCAAGATC  
ATCACTGCAGCCGCGGGGTTGGCGCATGAAGGATTAACCTCCAGACAGCATTGTGCCATGC  
CCTGGCACCATGAATATCTACGCCGAATTGTACCAACTACAACAGCTTCTCCTTGGGC  
AACACCTCATTGGATGATGCTTTTGCCAATTCATGCAACACCCTTTTCGCGGATATTTTC  
CACCCTTGGAGCCAGGCCAACTGAAAAATGTGGCTAAGCAGTTTGGCCTCGGAATTGAT  
TATCAAAATCCCAGGCCTTGACACCATGACGGGATCGGTGCCTGAAGGTGACATCGTGTTG  
GACCGTACCGAATCTGGTTACGGCCAGGGTCTTGACCTAGCAAGTCCCTTTGGCATGGCG  
TTGGTGCCTCCACTGCAGCCACCGGTTCAAGTCCCACGCCAACGCTGATTTCTGGACAT  
GAACTGTTGCCAGTGAAGAAGTTCTGGCGCTTGATCCAGAAGTCCTTGCCAATGTGCAG  
CGGATGATGAAATCCGTGGTCAATGACGGTACCGCTCGTGGCATGCGCCAAACCGGTGGC  
CAGATCTACGCAAGACAGGTGAAGCCGAAATCAACGAAGGCTCCCATGCGTGTTTACC  
GGCTACCGCGAAGATGACATCGCTTTTGCCACCCTCGTGGTGTGGGCGGAGGCTCCGAA  
GCGGCTGCGGCTGTGACAGATCAGTTCTTTGTGAACTCGATGAGCTTCGCGCAGGGGGA  
GAAGTTGCAGTCAGTGAAGCTGAAGAGCAGCCAGTCGGC

>RXA01608-downstream  
TAAAAAATAGCCTCCATCCAACC

>RXA01609-upstream  
GTTGCAGTCAGTGAAGCTGAAGAGCAGCCAGTCGGCTAAAAAATAGCCTCCATCCAACCC  
GCTTTACCTGTCATCGCTTCAGGCGACTAGCATGGTGACC

>RXA01609  
ATGTCTAAATGCGCGCACCACTTGTACCCGGAATTCCTACCCCAATCAGGGAAAGTACCT  
GCACATATTGAACGTCCAGAATATGTGTGGAAGGACGAAGTCCAAGAAGCAATCGGTGAG  
CCTTTTGTGCAGGCCCTGAGGTCATCGAGAAGATGCGTGAGACATCTCGCATCGCTGCA

AACTCACTGAAAATCGCGGGCGAAGCCGTCAAGCCAGGCGTGACCACTGATGAACTTGAT  
 CGCATTGTGCATGAGTACACCTGCGATATGGGCGCATACCCTTCAGATCTTGGTTACCGG  
 GGATTACCAAGTCCTCATGCATTTCCCTCAATGAGATCGTGTGCCACGGTATTCCCTGAT  
 TCCACCGTCATTGAAGAGGGCGATATTGTTAACATCGATGTCACCGCGTTCAAGCACGGC  
 GTCCACGGCGACTGCAATGCCACCTTCTTAGCGGGTGATGTTTCTGAAGAACACCGCCTG  
 CTGGTTGAGCGCACCGAAGAAGCCATGATGCGTTCCATCCGTGCAGCAAAGCCTGGACGT  
 GAAATCAACGTCATTGGGCGTGTCAATTGAGTCTTACGCCAAGCGTTTGGCTACAACGTG  
 GTCCGCGATTTCACCGGACACGGCATCGGCCCACTTTCCACAACGGCCTTGTGGTGCTG  
 CACTACGACAACACTCAGTACCGCGATCTGCTCGTGCCAGGCATGACCTTGACCATCGAG  
 CCAATGATCAACCTTGGTTCCCTCGACTACGAGATCTGGGAAGATGATTGGACTGTCCAA  
 AACGTTGACCGTAAGTTCAGCGCGCAGTTCGAGCACACCATTTGTCATCACCGAAGACGGC  
 AATGAGATCCTCACCTCCCAAGACGATTCCGTC

>RXA01609-downstream  
 TAAAAACGCCTAGGCCACAAGCC

>RXA01620-upstream  
 CGGCCGAGCAGTAACTTGCAGGTCAATGCAACTTTTAAACCGTAGAAAGTTATGGCCAA  
 AGACTGGCAATAGGTTAAGAACTTGC GTTAGGATAGCCTA

>RXA01620  
 ATGCAATCTATTCTGAACGACCTTCAGGTGCGTTTACGCGAGCGCAGTTATCGTGGGTACC  
 GTTTTGGCTTTGGGTATCGCAGGATGTTCCACGGCCAGTGATGAAGCCACAAGCACCAGC  
 GACGATGTAGCTGTGCGGCGCCGCTATTTTCTACAGCGGATTCCGCCACCGCCGCTCTG  
 GGAAGCGACGCCGAACCAGGCCAATTCCCCCGCACCGTTGTGCATTACGCGGGCGAACT  
 ACCCTTGAGCAGCAGCCACAACGAGTCGTGGTTCTCGACAGCGGTGAAATCGACCAGGTT  
 TTGAGCCTCGGCGTGACTCCCGTCGGCATCGCCAGCCGAAAGACGCCTCCAGCCAGCCC  
 GCTTACCTCGAAAATCAGCTGGCAGATGTACAACTGTGGGCGACCACGAGTGAGCTCAAT  
 TTCGAAGCCATCGCCGCCCTCAAGCCTGACCTGATTCTGGGCGCAAGCTGCGCGTCGAC  
 GAATCCTACGATCAGCTCTCCCAAATCGCACCAACCGTGCTGAGTATTGCCCCGGATTTC  
 CCCTGGAAGGAAAACCTCTCTCTCACCGCCGACGCGCTCGGTCTCGAGGGCAAAGCCGTC  
 GAGGTTCTCAACGAGTACCAAACCCATGTGATGCAGTCCGCGAGACCATCGACGGCAGC  
 CCAGAAATCTCACTCGTCCGCTTCATGCCTGGTGCACCCGCTGTACGGAAACCTCTCT  
 TTCATCGGTGCAATCCTTAAGGACCTGGGGCTTTCTCGCCAGAGATCCAAAATATCGAC  
 GATCTTGCCGTGGAGATCTCCCCGAAAACATCACCGATGCCAACGGCGACTGGATTTTC  
 TACTCCACCTACGGCAAGCCCGAGGCCACCGAGCAGGACAACATTTTGTCCAACGAGCTG  
 TGGCACAACCTTCCCCCGCGTCCAAGAAGGTGATGCCCTGGAGGTCAA

>RXA01620-downstream  
 TGACGAGAGCTGGTTCATGGGGT

>RXA01640-upstream  
 CATGGTGCTGGCGATGGTGGCGCTGATGATCCTTACCAGTGGGCAGTTAAATCCTATGGT  
 CTTGATTTTTCCAATGATGATGGGTATGAGCGTCTTGATG

>RXA01640  
 ATGTTTCGCCCCACCTGAAGGTGACGATACTGATGAGGTTTCGGCGCACCTATTTACGTCAC  
 CTGGGTGCATTGCGGGCGAAAGCGACAGATCACGCGGCGATGCAGCGCAGGCATGAATGG  
 CACAGGCATCCTGATCCAGCAACCTTGTGGTCCACGTGGGGACTCGGCGGATGTGGGAG  
 CGCACCCAAGATGATCAAGATTGTTTGAAATCCGTTTGGTTTGGGCGTGACCAGGCTT  
 GATCCGGCTATTAACGTGAGTGATTGCGGTGCGCCGAGGATCTTGATCCGGTATGTGCG  
 GTGTCGTTGCGTCACACCATTCGGGATGTGGGGTCGGTGCAGAGCATGCCGGTGTGCGTT  
 CAGTTGCAGGCGTTTCGATTCAATTGGGCTCAACGGTGCGGGCGCACATGATCTGGCGCGG  
 GCGCTGGTTGTGAGTTGTTGTACCACCACGGACCGGAGGTGGTGGGTATCAAAGCGATC  
 GGGGAGTCGGGTTGGGAGTGGCTGAAATGGGTACCGCACACCCGCGATCCGGAGAAGGCA  
 GCCTTTCGGATTTTGGTGGTGATTCCGTGTTGACCAACGGCACCGAAAGCTTCATTGAT  
 GACCCCCAATGGACCACGATCATCAACGTTGGCGCGCAGACCAGCACCGCATTGGGCCAG  
 CTGGCAGAGGATGAAGGGCTGCTGTTGCACGTCGATAAGCGTCTGCATGTGGCTACCGCG  
 CACGGCGCGGAGGAGCTGGGCACGCCGGATGCGGTTAGCGCTGAGCTTGCGGAGGTTTTT

GGCCGCCGTTTACTGCTTTTCGACGCACAACCACAGCACACGCGCGAGCTCTGGTGAA  
 TTGCTGTCCCTTTTGGGGATTGATGACGTGGAGCATTTAACTCCAGAAACCTTATGGATG  
 AACAAGCGCACGCAGCCTAAAACTCGTTTGGCGGTGCCCTTGGGTTTGAACGCGTCCGGT  
 CGGCCGATGGTACTGGATCTGAAGGAATCGGCGCACGGCGGAATGGGACCACATGGGCTG  
 TGCATCGGCGCTACTGGCAGCGGAAAATCCGAACTTTAAAGAACACTTGTCTAGGTTTG  
 ACGATCACCCATTTCGCTGAGGAATTGAATCTGGTGTGGTGGATTTTAAAGGTGGCGCC  
 ACCTTTTGGGCTTCGAGCAGCTGCCTCACACGTCCGCGGTGATCACCAACTTGGAGGAA  
 GAGCCCGTGTGGTGGAGCGCATGCATGATGCGATTTCCGGTGAGATGAACCGCAGGCAA  
 GAAGCCCTTCGGCAGGCAGGTGGCTGCGCCAATGTGGATGAATACAACCAGCGTGATGGT  
 GTGAAACCGATGCCGCGCTGCTCATTGAGAGCGATGAATTCTCGGAGTTGCTTGGCCAA  
 CATCCCGATTTCGACAGACCTATTCGTCGCCGTTCGGACGCTTGGGCCGTTCTTACACATC  
 CATTTGTTGCTCGCTAGCCAACGTCTGGAAGAGGGGCGGTTCGCGCGGATTGGATTCCCAC  
 TTGTCTACCGGATCGGCTTAAAAACCTTTTCCGCATCCGAATCGCGCCAGGTATTAGGC  
 ATCACTGACGCATATCAATTACCCAGCCAACCGGCGCAGGTTTCTCAAATCCGACGTC  
 GACACCGTCACCCGCTTCCAAGCAAGTTATGTATCCGGCCCCATCATGCGTCGCCATCAC  
 CTCGCACCAACGCAGTCCCGGGTGGCCTTTTACCAGCTGGGAGGAACCCAAAGAGGAG  
 GTGATTGTCGAGCAAAGCACCGAGACGCTTATCGACGCCGTGGTTGCGCGCGCCATCAGC  
 GCCGCGAAGTTGCGGGGGTTAAGCGCTCATCGCATCTGGTTGCCACCGTTGCCGGCAGAA  
 GTTTCGATTGGTGTCTTGGCTGATGATGTCGGTGAGCTAAGCGCCGTGATCGGGATGATC  
 GATAGACCCTATCAACAGCGACAAGATCCATTGCTGATTGATTTTTCTCTACCGGTGGA  
 AGCGGCCACTGGGCTATTTGTGGTGGGCCCCAAACCGGAAAGTCCACGGCATTGCGCAGC  
 ATCGTGATCTCCATGGCAGCAACGCATAGCACAGAAAACATCCGCTTTTACGTGCTGGAT  
 TTATCTGGAACCTCCCTGGAAAATCTCTCCCGCTGCCTCATGTTGCAGGCGTGGCAGGA  
 CGCAAGATCCAGAGAAAAGTCCGCGGAGTTGTGATGAAGTACGAGGCCGTGATCAACCAC  
 CCTGAACAACGCCACACCTTCCTTATTGTGGACGGCTGGCACACCATCACCAAGAATTC  
 GACGAGCTTTTCGACGCCTTCGTAGACATCGCCGCCAACGGCCTTGCCTCGCGGGTGCAT  
 TTAGTTTTAAGCACTCAACGCTGGAGTTCCATCCGCCCCGCGTCCGCGATCTGGTGAAT  
 GGCAGAATCGAATTGAACTCGGCGAAGCCATGGATTCCGGTGATTGATCGTAAAGCTCAG  
 CTTCCGATCCCGTCGAAACCTGGGCGTGGCCTCAACCTGGATAAAGAACACATCCTTATT  
 GCTCATGCGTCTGGCCAAGACATCGCCAGGTATGCGTCATGGCCGATGGGCAAGGATGG  
 CAGCAGGTCCCACAATTAAGCGTGTGCTGCTGCGCATATCCTGCTTCACGAGCTTGAGCTT  
 TCTGCGACACCTGGCATCCCGATTGACCGGGAGGTGCTGAAGTATCCACGCTGACGTGG  
 GATCCAGAAATCCAGCGCCACCTTCTAGCTTTTGGTTCTCAAGGTTGTGGCAAATCCTCG  
 CTGATCCGACGATTGTACGGGTCTGACAATTGTGGGGCGGGAGAAAGCACGCTTGGTA  
 TTTTTCGACCTTCGACGCACCCACCTAGGCCTGGTCCCCGAAGACATGTTGGCTGCTTAT  
 TGTGCTACTTCCACAGCAGTCCACAACACCATCAAAGACATGGTGGCTACGCTATCCGCC  
 AGACTTCCAGGACCTGATATCACCGCCCAAGAACTCCGCGATCGTTCTTGGTGGCAGGGG  
 CCCGACATTTATTTAGTTATCGATGATTATGATTTGCTCCCCGCCGGCACCCCTGCACCCG  
 CTGCGCGAGATCATCCCGCATGCAAGAGACGTAGGCCTGCACATCGTGCTCACCCGAAA  
 GCCGGTGGCGCCTCGCGTGCCTCTACGATCCGGTCATGTCCGAGATCAAGGACCAATCA  
 CCGCACGTCGTGCTTTTCGACGCCGACCGCGACGAAGGCGCTATCCTAGGCATCAAAACC  
 ACAGACAACCACCAGGACGTGCCACGATGTCCATCCGTGGTGAAAACATCGGTGTTGCA  
 CAGATGGCACCGCATAGG

>RXA01640-downstream  
 TGATGACTCATGAGCACCCAAAC

>RXA01653  
 GGAAGTGATCTACAAGCTTCTCGAGGGCTCCTGGAAGACGATGCTGTTCAAAACAATACG  
 GAGACGAGTGTCTTTACGGAATCCTCCAAAGTGACGCCATTAAATCATCATGGCAAGTAC  
 TTTGATGTGCCGGGATTGCCATCACTGAGCCGAGTGTGCAGCGTACGCCGGTGTCTAC  
 CAGGCGGGTGCATCGCCGCGCGGATTGAAATTGCTGGTGAGAATGCAGAAGCAGTGTCT  
 ATCAATTCAGCACCGTGGAGGCAATACCAAGACTGTCGCAAAAATTCGCGCTGCTGCG  
 GTCGCTGCGGGACGTGATCCACATGCGGTGAAGATCTTTGCGATGCAAACCATCATCACT  
 GGTGAAACAGAAGCAGATGCGCAGGCAAAGCTGGAGGAATACAGTCGCTATATCGATCCT  
 GTCGGTGGTCTGACCTTGATGTCTGGATGGACCGGCGCGGATCTGTGCGAGTATGACCTG  
 GATGAAACCGATACCAATATTGAGTCAAACGCTATTAGTCCACTGCAGCCACCATTAGC  
 AACGGCACCGGTGAAGGTGCGTGGACGATACGCAAACTGGGTGAGGCAACCGGCATCGGC  
 GGCTTCGGACCAAGTGTCTGGGATCTGGCGCTAACGTTGCCGCGGAACCTGCACGCATC  
 CAGGATCTCAGCGATGTTGATGGTTTCAACCTTGTCTATGCCATCACCCAGGAACCTTT

GAAGATGTCGTGGACTTTGTGGTGCCTGAGCTGCAAAAACCTAGCCGCTACAAGACGGAA  
TACGCGCCGGGTTTCCTTGCGCAACAAATTGCTCGGTAAAGGTGATCGCCTGGACGATACC  
CACCGCGGCGCAAGCTACCGCCTAGGCGCTCGGAACCTCCACCGCCACTATTGATCTCAGT  
TCCATATCCGCCCCAACTAGTTTCCCAGGGAGCCCACTCA

>RXA01653-downstream  
TGATCTCACCGCAAACAATCATC

>RXA01654-upstream  
CTTTTGCTGTTATGAAAGTGAACATAAGATATCTATGCGCAGACCGGTCTCACGCCGCGC  
CATTTTGTCAACATCTGTTTGGTTGCGGGGGTGAGCATC

>RXA01654  
ATGTCACCTTCGGCCAACGCAGCTGAGGCTCCGGCATCGGAATGGGTGAATACGACAGCG  
ATCGTAGATCAAGCGAATGCTCAGTTGTCGCAGTTTGGCGTGAGTCTTGACCGAAGTGCA  
GCAGAACTTTTTGATGATCAGGCAAACTCCCAAATTGATGCAGCGCTTTCACCGTATGCC  
GATAAGGTTCCAACCTCTGGCGGCCAGGTAGTCGAGCAAAGTCTTCAGGTTGTGGAGCAG  
GAAGTTCAAAAGGCACTGCCAACTATGAAATCCGTACCGATCTGCAATCCCAGGTGATG  
GGTGCAACTCTAGGAGAGGTGCTGCACCGAGTTCCTGGATCATGGTTTGATGCGCCAGCA  
GTTCTCTGAAGAATCCAGGATTGTAGAGGAACAGGGTAAATCCCTGTATGGGCCCCGGTACC  
CCGATCTATCTCAACGGAAATTCATGTGCACGCTTGCAGTGACTGGAAGTATGCAGAT  
GGGCGCAAGATCGGTATCACTGCAGGTCACTGTGGAAAATCGGGCGATGCAGTCCGTTTCG  
GCTGACTCCTTCTGGGTGCGCGATACCGGAACAGTGGTGTACAACGCGCCTAACGCTGAC  
TACTCCGTGATCGAGTTCGGTTCCAATGCAGAGTTGAGCAATACCTACAACGGTGTCACC  
GCGAATGCTGTGCGCGGTGGCGTGACTAATGGCCAAGAAGTATGCAAAAACGGAGTTGCT  
ACTGGCTACACCTGTGGTTTGGTGTGGACTGCTGATGAGCGCATGACGATGTCTCAGGTG  
TGTGCGGGTTCGTGGTGATTTCGGGTGCTCCGCTGATTGCAGATGGTTCGTGTGGTTGGTCTT  
GTATCTGGTGGTGTAATTCCTGATTACAACCTGGCATGCGCCACTCCGTTCAGGGACCT  
TTCTTCATGCCAACGCTGTCAGTGAACATGGATACTGTCCTAACTGATTGGATTTCGCG  
GATCTTCCCGGTTCGAGGTTTTCAGCCAACTGCTGGA

>RXA01654-downstream  
TAGAATTTAGAAAATCCGCCGTT

>RXA01664-upstream  
CGGGTTACCAAAGTGAATGGTAGGGGAAGTTCCGTGTCTTATACCGGTTAGGTTTTGCC  
CGCGCTGCGCTTGCTCACATTAACGCCTAGGCTCGGGCT

>RXA01664  
ATGACCGTGTTGATTTCTCCGTCCACCCTTGCTGAATCAATCCACGCTGGTAAGAAACAA  
ACTGTTCTCGCTGCTTTCTGGGCTCCAATTGAAGGAGCAGGCCGCACAGTTTCTGCTCT  
GAGCACATCCCAACTTCCATTTTCTGCGACCCTGCCCTTGAGCTTTCGGAGTTCCTTCC  
TCTGAAGATGGCCGCAACCCACTGCCACCGCTGAATGTGTTGGCACGTTCTTTCAGGACC  
TGGGGTTTTGAATACCGATCGTGAAATCGTGTTTTACGATCAGGGACGTGGCCTTTTTGCT  
GCACGCGCCTGGTGGATCCTCCGATGGGCGGGCATGCCAACGTTTCGCATCCTTGACGGT  
GGTTTCCAGAAGTGGGAAGACCATGAGCTGGGACACGCTGGCGGGCCTGGAAACTTCCCG  
CACTTTTGCAATGTGCGTCCCAACCCAGGTGAGTGTGCGGTAGCGACCATCGAAGATGTC  
AAGGCACATCAGGGCATTTTGATTGATTCTCGCGATGAACAACGATTTCGCGGGTCGCAGT  
GAAAAGCTCGATCTGAAAGCCGGACACATTCCAGGCGCTATCAACATCAACGCTAAATCT  
TTGCTGGAAGATGATTTACCTTCAAATCACCAGAAGAAATCCGCCAGATTTTTCGGGAC  
AAGGGGGTAACCAGCGGAGAGAACGTCATCGTTTATTCCGGTTCGGGTAACCACTCGTCC  
CAGTTGCTGGCTGGCATGGAGCACGCGGGGCTAACCGGTGCGAGCCATTATTTTGCTGGT  
TGGTCACAGTGGAGCGCTAACCCGAGAATCCTATCGAGGCC

>RXA01664-downstream  
TAAAATCGTGGCTTGAGTACGCA

>RXA01668-upstream

ATAGATATTAGAGAGTTAAATAATGGCGCTTGACCTGCAGGAAATTGAGATCAACACTGA  
TTGTGTAGGTTGGCGCCCAACAAAGAAAGGGCGTTGAAAG

>RXA01668

ATGAGTTCATTCAATCCAACCTACCAAAACCAATGAAGCCATGCAGGCTGCTCTTCAGCAG  
GCATCCTCGGCTGGCAACCCTGATATTCGTCCAGCTCACCTGTTGGCTGCCATCTTGGAG  
CAAACCTGATGGCGTAGCAGCGCCAGTCCCTCATGGCTACTGGTGTGGATCCTAAGGAGATC  
CTCGCAGAGGCCAAGAAGTTGGTTGCTTCTTACCCCAAGGCTTCTGGCGCCAATATGGCT  
AATCCAAACTTCAACCGGGATGCCCTCAATGCGTTCAGTGCAGCTCAGGAGCTTGCCGGT  
GAGTTGGGCGATGAGTACGTCTCAACCGAAGTACTTCTTGGCGGTATCGCTCGCGGAAAG  
TCTGATGCTCGGGATCTGTTGACCAACAAGGGTGCAACCTATGACGCCATCAAAGAGGCT  
TTCCCTTTCGGTTCTGTGGATCTCAGCGTGTCCACCTCAGGATCCAGAGGGACAGTTCCAG  
GCTTTGGAAAAGTACTCCACTGACCTGACCAAGCTTGCTCGTGAAGGCAAGATTGATCCT  
GTTATTGGCCGTGACCAGGAAATTCGTGCGCTCGTTCAGGTGCTTAGCCGTCTACCAAG  
AACAACCCTGTTCTGATCGGTGAGCCAGGTGTGGTAAAACCGCCATCGTGGAAGGCCTT  
GCACGCCGATCGTTGCTGGTGACGTTCCAGAATCCCTCAAGGGCAAACTCTGATCAGT  
CTTGATCTTGGTTCCATGGTTGCCGGCGCTAAGTATCGCGGTGAATTCGAGGAGCGACTG  
AAGGCTGTTCTGGATGAGATCAAGGGAGCTAACGGCGAAGTCGTTACCTTCATCGATGAG  
CTGCACACCATCGTCCGGCGCTGGTGCTTCCGGTGAATCCGCCATGGATGCCGGAACATG  
ATTAAGCCACTGCTTGGCCGCGGTGAGCTGCGCTTGGTTGGTGCCACCACGCTGAATGAG  
TACCGCAAGTACATCGAAAAGGACGCTGCCCTGGAGCGTAGGTTCCAGCAGGTTTATGTC  
GGTGAGCCAAACGGTAGAAGATGCCATCGGTATTCTTCGTGGATTGAAGGAACGCTACGAG  
GTCCATCACGGTGTCCGCATCCAGGACTCCGCACTGGTCCGCGCAGCTGAACTCTCAAAC  
CGCTATATCACAGCCGTTTCTTCTGATAAGGCTATTGACTTAGTTGATGAGGCAGCA  
TCACGCCTGCGCATGGAGATTGATTCTTACCTCAGGAAATCGATGAGCTGGAGCGTATC  
GTCCGCCGCTCGAGATCGAAGAGATGGCGCTGTCCAAGGAATCCGATGCAGCTTCCAAG  
GAACGTCTAGAAAAGCTGCGCTCGGAACCTTGCTGATGAACGCGAAAAGCTCTCTGAGTTG  
AAGGCTCGTTGGCAGAATGAGAAAACCTGCTATTGACGATGTCCGGGAGATGAAAGAAGAG  
CTGGAAGCGCTGCGTTCTGAGTCGGATATTGCAAAACGTGACGGCAATTATTGTCGTGTC  
GCAAAGCTTCGCTACGGCCGAATCCCTGAGCTGGAAGCAGATCGAGGATGCAGAATCC  
AAGGTCGAGGTCAATGAAAATGCCATGCTCACTGAGGAGGTACGCCAGACACGATCGCC  
GATGTGGTTTCCGCATGGACGGGCATTCTGCAAGCAAGATGATGCAGGGTGAGACCGAG  
AAGCTGCTCAACATGGAGCGCGTCTTGGGCAACCCG

>RXA01691-upstream

AAAACCTTAAGTTGGGTGGTTAAACCCACTAAGGTCTCACTTTATGGATGTGCCAGGTCA  
CACCAAAAAATCTCAAGAAAACCTCACATTAAAGGACAGTA

>RXA01691

ATGGCGTCACAACAGATCCGCTATCCATTCTCCGCGGTTGTGGGACAAGACGAGCTTCGG  
CTTGCGTTGATCCTCACTGCGATTTCCCCACGCATTGGTGGCGTGGTGATTCGAGGTGAG  
AAGGGTACAGCGAAAACCTACCACTGTGCGTGCTTTTGCTGGTCTTTTAGGTGATGCCCT  
TTGGTGAACCTTGCTCTCGGATCCACGGAGGATCGTGTGGTGGGTTCCTCAACATGGAA  
ACTGTGTTGACCACCGGCCGTGCGGAATATCAGCCAGGTTTGCTCGCGCAGGCTGATGGC  
GGTGTGCTGTATGTCGATGAGGTCAACCTCTTGGCGGATCACCTGGTGGATGCTCTGCTC  
GATGCAGCTGCAAGCGGTGCGCTCAGCATTGAGCGTGACGGTATTTCGCATTCTTACCA  
GCAAACCTTTGTGTTGGTGGGCACCATGAATCCGGAGGAAGGCGAGCTGCGCCCGCAGCTG  
CTGGACCGTTTTCGGTTTGGCTGTGGACGTTGCTGCGTCTACGAACCCCTGAGGTGCGCGTG  
GAGATCATTCGCCGCCGCGCTTGATTTT

>RXA01728-upstream

GAATCGCCGACCTTGAAATGGACCCGGTTTCCAGAAGACGTGCTTCCTTTGTGGGTGCG  
GGAAAGTGATTTTGGCACCTGCCCGCAGTTGAAGGAAGCT

>RXA01728

ATGGCAGATGCCGTTGAGCGCGAGGTCTTCGGATACCCACCAGATGCTACTGGGTTGAAT  
GATGCGTTGACTGGATTCTACGAGCGTCGCTATGGGTTTGGCCCAAATCCGGAAAGTGTT  
TTCGCCATTCCGGATGTGGTTCTGTGGCCTGAAGCTTGCCATTGAGCATTTCTACTAAGCCT  
GGTTCGGCGATCATTTGTCCGTTGCCTGCATACCTCCTTTCATTGAGTTGCCTAAGGTG

ACTGGTCGTCAGGCGATCTACATTGATGCGCATGAGTACGATTTGAAGGAAATTGAGAAG  
GCCTTCGCTGACGGTGCGGGATCACTGTTGTTCTGCAATCCACACAACCCACTGGGCACG  
GTCTTTTCTGAAGAGTACATCCGCGAGCTCACCAGATATTGCGGCGAAGTACGATGCCCCG  
ATCATCGTCGATGAGATCCACGCGCCACTGGTTTATGAAGGCACCCATGTGGTTGCTGCT  
GGTGTCTTCTGAGAACGCTGCAAACACTTGCATCACCATCACCAGCAACTTCTAAGGCGTG  
AACACTGCTGGTTTGAAGTGTGCTCAGATCTTCTCAGTAATGAAGCCGATGTGAAGGCC  
TGGAAGAATTTGTCGGATATTACCCGTGACGGTGTGTCCATCCTTGGATTGATCGCTGCG  
GAGACAGTGTACAACGAGGGCGAAGAATTCCTTGATGAGTCAATTCAGATTCTCAAGGAC  
AACCGTGACTTTGCGGCTGCTGAACTGGAAAAGCTTGGCGTGAAGGTCTACGCACCGGAC  
TCCACTTATTTGATGTGGTTGGACTTCGCTGGCACCAAGATCGAAGAGGCGCCTTCTAAA  
ATTCTTCGTGAGGAGGGTAAGGTTCATGCTGAATGATGGCGCAGCTTTTGGTGGTTTACC  
ACCTGCGCTCGTCTTAATTTTTCGTGTTCCAGAGAGACCCTTGAGGAGGGGCTGCGCCGT  
ATCGCCAGCGTGTTG

>RXA01728-downstream  
TAAATAATGAGTAAAAAGTCTGT

>RXA01795-upstream  
AGACCATATTGAAGACCTCGAAGCTGTTGAGCCTGGCTACATCGTCAAGCCTCGCCTGTA  
CAACTTCGCTGAATACGGTGTCCCACAATTCCGCGAACGT

>RXA01795  
GTGCTCATTGTTGGCATTTCGCCGTGACACCGGCTTTGATTTCAAGCACCCAGCTCCTACC  
CATGGCCCTCGCGGTGACATGCCGTATAAGACTGCCGCGCAAGCGCTCAAAGGCGTGAAG  
GATGTCCCCACAAACAACAACCACATGAAGATCATGCCTCGCACCGTTGAAGTGCTTAAG  
CGCATCCCTGAGGGCGAAAACCTTCACCGCGATCCCCAAAGATGACCCCTACTACGTCAAG  
GGCATGATTAGTCACGTTTACCGTCGCTTGACCGGTGATGAGCCATCCAAAACCCCTTATC  
GCCGGTGGCGGGGGGTACATGGGGATACCATTATGAAAAAATCGAGCATTGACCAAC  
CGCGAGCGGGCTAGAATTCAATCGTTCCCCGATGACTTTGAGTTTTTGGGATCAAACACC  
CAAGTCCGCCGCCAA

>RXA01802-upstream  
GGAATTCTGGACAAAAGTGTTCACCTACGTTAGACATGAGAACCAGTGTGGCACATCACAG  
GAAATCTTCGCGGGTGTTCAGACAACCCGGATGTGACAGA

>RXA01802  
ATGGGCGATCAAGACATAATCGGAAAGGAATCCAAACAAATGGACTTTTCGCCTCGTCGCG  
ACAGACATGGACGGCACACTTTTAAACACCCACCACGAAGTCCAGAGAAATTTTGGGAC  
ATCCTGGAACAAATGCGTGCCAAAGGAATCGCCTTCGCACCAGCCAGCGGCCGTCAATTA  
GCCACCTTGCAAAAACAATTCGGGACGCGGGTGAACCCATTTCTTACATCGCAGAAAAC  
GGCACCGTGGTAGTCCACGACGGCGAAATTATCTCCCTGACCACCATCGACTCCGACACC  
GTACACTCCATCATCGATGCCGTGCGCGCATCCGACATCGATATGGGAGTAGTGGTCTGC  
CGACCAGAACGCGCCTACGTGGAACGCAACGACGAAGCTTTCCGCGCCGAAGGCCTGAAA  
TACTACGTCTCCATCGAGGAAGTCCAAGACCTCCACGAAGCAGTCAACAATGAAGTAATC  
AAGGTAGCGATCTTTACATTCCAAGATGCCGAAAGGACTGTGCCCCCATCATCCGCGCA  
GCCTCCCCCAACGCCAACGTTGTTGTCTCCGGCCAGCACTGGGTGATGTGATGGATCCT  
TCAGCCAACAAGGGCCAAGCTTTGGTGTCTCCGCGATGCCCTCGGATTGGAAGAATCC  
CAAATCTCGTGTGTTGGCGACTACCTCAACGACACTGAATTGATCAAGGCCGCCGCAAG  
TCTTACGCCATGTCCAATGCCACCCGGACATTTTGAATTGGCCGACGAAATTGCACCA  
TCCAACATTGAAGAGGGCGTTATTGTGGTGTGAGAAAGTTGCTTAACGGT

>RXA01802-downstream  
TAACGATTGCAGGCAGCAGGTTC

>RXA01828-upstream  
CATCCCTGATGGCTAACTACATTCTGATGGCCATCATCTTGCGTATTTCTGACAGTGCCC  
GCCGACCTGTGATGTCCAAGCAAGCATCGGAGGTGGCTGC

&gt;RXA01828

GTGAACCGCTCGATTGAATCACATCCCTCTTCTCTTTGCTCCTGATCTTGGTGCTCGTA  
 GCAAACCTCACCTGGATTAGGCTTTTAGGGACGATGATCTTGCTCAGAACCCACTGAAC  
 GCACGTGGTTTCTGAGGCGAAGTCCACTCCGCGTGGACAGATTTCAACTGGTGGCCAA  
 GTACTCGCAGAGTCTCCAGGACGATCAGGGTTTTTACCAGCGCAGCTACATCACCAC  
 CCGACTGCCTACGCACCGGTGGTTGGTTACCTCTCTGATGTTTATGGAGCAGCTGGCCTG  
 GAATTGGGATACAACCTCTATCCTCAACGGCAGTGACTCTTCCCTGTTTACCTCCCAGTGG  
 CTGGATGTCATTTCTGGCAGCCCTACCCATGGCGCAAACATTGAGCTGACCTTGGATCCC  
 AATGCGCAGCAAACCTGCTTATGAACAGCTGAGCCAAAGCGGCTACGAGGGTGCTGTGGTG  
 GCGCTTCGCCCCAAGCACTGGTGAGGTGCTGGCCATGGCGTCATCGCCAAGCTATGACCCC  
 AACCAGATCGTGGATCCAGCAACCGCAGAGGACGCTTGGGCTGAGTACACCTCCACTGAA  
 AGTGACACCGCTGCTCAACCATGCAACGCAGGAATCACTGCCTCCTGGATCTATTTTCAAG  
 ATCATCACTACTGCGGCAGCTTTGGAAAACGGCTACTCTGCTGATTCCACCGTGACTGCA  
 GAGGCAGCAGTGACCTGCCTGGCACCAACACCACCTTGACCAACTACGGCGGTGAGACA  
 TGTGCGGGCGGTGGCACCACTACCTGCTCACCGCTTTCCAGCTCTCCTGCAATACTGCG  
 TTTGTGGAGACCGGCATTGATGTTGGCGCGGATGCTTTGCGCGCGTCTGCCGAGGACTTC  
 GGAGTGGGACAAACCTACAGCTTGGGACTAGATAACGTTCTTGGCGGCTTGGGTGAAATC  
 CCCGACGATGCCGCCCTTGGACCAATCCAGCATTGGCCAGCGCGACGTGCAAATGAACGTG  
 CTGCAGGCCGCTGTCTATGGCAGGAACCGTATCCAACGGTGGCGTACGCATGGAACCATAT  
 TTGGTATCCCGCGTCAACGGTCAGGACCTGAGCGAACTGAGCACCCACAAGCCGAAATCA  
 GTTGGTGGAGTGCAGCCAGAAATTGCAGAACAGTTGAAGACTTTGATGGAAGCCTCAGAG  
 CGCAATACCTTCGGGCTACACCGGAATTCAGATCGCTTCCAAGACTGGTACCGCGGAACAT  
 GGTGATGAAAACACACCACACACCTGGTACGTGGCATTCAACAACGACATTGCTGTT  
 GCTGTGTTGGTGAAAGACGGCGGTGGATTGTCACAGTGCAACTGGTGGTCAGGTCGCA  
 GCCCAATTGGCCGAGCTGTGCTTCAGGCAGCCGGAGGATTT

&gt;RXA01828-downstream

TAAAATATGAGTCAAGAAGACAT

&gt;RXA01829-upstream

TGCAACGGCTGGCTGCTCAAGCTTTGCCAGTGTGCGTGAACCTAGAAGTAACAACCGGTG  
 GCGATAGAAACGAACCCGGAGTCAATTGTAGGGAGGTCTC

&gt;RXA01829

ATGAACACGCTTGAACGATTAAAGCTTCGTGCGACGGAAATGTGGCTGCTGATACTTGCC  
 AACTCGTTGTGTCGATCATGTTTCATCAGCCTCGAGCTGGCCATGGGCAATGAGTTGGGT  
 ACCCATATTTTATGCTGATGGGCGGATATATCGGTATCTTCATCGTCGCGCACCTAGCC  
 ATGGCATGGGTGGCGCCGTTTGCTGATCAAATCATGCTGCCTGTGGTGGCGGTGCTCAAT  
 GGCATTGGTTTGGTGATGATTTATCGCCTTGATGAGGCCACGGGCTACAGCACGGTCAAT  
 AGCCAATTGATGTGGACGGTTGTTGGCGTCACGCTGATGGTGGCTGTGTTGTTGCTGTTG  
 CGTGATTACAAGTCGCTTTCGCGTTATTCCTACCTCCTCGGTGTGGTGGGCATCGTGCTG  
 CTGGCGCTGCCTCTCGTGTGGCCGACCCAGGCGGCGTGGAAAGCCCGCATCTGGATTG  
 CTTGGACCTTTCTCCATCCAGCCAGGTGAGTTCTCCAAGATTTTGCTGCTGCTGTTCTTT  
 GCTCAGCTGCTAGCCACCAAGCGTGCTTTGTTTACTGTTGCGGGCTACCGTTTCCTCGGC  
 ATGGATTTCCCTCGTTTTCGTGACCTCGCGCCGATTCTTGTGGTGTGGGCGTTGGCTATT  
 TTGATCATGGCTGGCGCCAACGACTTCGGTCTGCACTGCTGCTTTTCACTACCGTTTTG  
 GCCATGGTGTACCTGGCTACCGGCCGTGGTTCTGGCTGTTGATTGGTGTGTTGGTG  
 GCTGTGCGCGCGTTTACGGTGTACCAAGTTTTCAAGCAAGATTACAGGAACCGGTGCAAAAC  
 TTCGTGGATCCTGTGGCCCACTATGACACCACCGGTTACCAGCTGTCCCAGTCTTTGTTT  
 GGCATGAGTTGGGGCGGAATCACCGGCACCGGCATTGGTCAGGGTTACCCCAACATGATC  
 CCTGTGCTGCACTCGGACTTCATTCTCGCAGCCATTGGTGAGGAGCTTGGTCTGATTGGC  
 CTGGCGGCCATCATCGTGCTGTTTGGTGTGTTTGTACCCGCGGTATGCGCACCGCTACC  
 CTGGCTCGTGACAGCTACGGAAGCTCGTGGCATCTGGTCTGTGATGACCATCATGATC  
 CAGATTTTCGTGCTGCTGGCAGGTATTTCTTCACTGATGCCCATGACAGGTTTGACCACT  
 CCGTTTATGTCCAGGGTGGTTTCATCCCTGATGGCTAACTACATTCTGATGGCCATCATC  
 TTGCGTATTTCTGACAGTGCCCGCCGACCTGTATGTCCAAGCAAGCATCGGAGGTGGCT  
 GCG

&gt;RXA01829-downstream

TGAACCGCTCGATTGAATCACA

>RXA01838

CAGCACCTCTCCGGCGGCCGTGTTGACCTTATGATGGGCGGTGGCAACACCGGACCCGTT  
TACCCATGGTTTGGCAAAGACATCCACCAAGGCATCCCACTAGCGATTGAAAACCTACCAC  
CTCCTGCGCCGCTCTGGCGCGAAGACGTAGTCAACTGGCAGGGCAAATTCCGCACACCG  
TTGCAGGGATACACCTCTACCCAGCACCATTAGACGGCGTTGCACCATTTCGTCTGGCAC  
GGCTCCATCCGCTCCACCGAAATCGCAGAGCAAGCAGCCTTCTATGGCGACGGCTTCTTC  
CACAACAACATCTTCTGGAACAAAGAGCACACCGCCCAAATGGTCAACCTCTACCGCCAG  
CGTTTCGAACACTACGGACACGGCCAAGCAGACCAGGCCATCGTGGGACTCGGTGGCCAA  
GTCTTCATCGGCGATTCTGAAGAAGAAGCAAAGAAGACCTTCCGCCCTACTTCGACAAC  
GCCCCGTGTCTACGGACACGGACCATCACTTGAAGATTCTCCCGCTGACCCCACTAAC  
GTCGGTACCGCTGAGCAAGTTATCGAACGCACCATGGAATTCGCCGACTGGGTAGGCGAT  
TACCAGCGCCAGCTCTTCTCATCGACCACGCCGGCTGCCACTAGAAATGGTCTTGAT  
CAGATCGAACGCCTCGGCCACGATGTCGTCCAGAGGTACGCCGCCGATGGAGGAGCGT  
CGCCAGACCAGTTCCCTCCAACCCACCAACCCACCAGAGCCTGAAGGCCAACCGAAAC  
AGCCCTTACTTTTCAGATCAACCCCTGGTCAGCCAACTGAG

>RXA01838-downstream

TAGTTTTTCTGAACTAAGGAGA

>RXA01848-upstream

CTGCAAGGAACTGCGCAGGCGAAGGCGCAGACTACTGGAAAGGTAGGTACTGCCGGATCC  
GGCGACCCCTTTTCGCTCCTAGGCATTTGCGCCTGGCGTCC

>RXA01848

ATGGGGGAGGAGGACTCCACCCAGGTAGGCGTTCCAAGGCGTATTTCGCGCCAGGGCGCT  
GATGTCGCCCCCATGAAGGGTGGACACGGCATCACTTAGTGGGCACGCTCATGGCGGCT  
ACGGAACGCGCGGCCAACATTGTTGAAGGCGTGGTCGATTTCGGGCCACGGACCTGCGG  
GGTTTCGCTGCGCCGTGGGCGCGAAGCCAACCTCATCGTGTTCGTGTCGACACATCGGGG  
TCGATGGCTGCGCGTTCCAGGGTGCGTGCGGTACCGGGACTATTACCTCTATGCTTAAC  
GACGCCTACCAGCGCCGCGACAAGGTTGCGGTTATCGCGGTCAACGGCAACAAGCCGACA  
CTGGTGTGTAATCCAACAAATCTGTGGAGCAAGCTCAGCAGAAATTAAAGGATATGCCG  
ATGGGTGGTTCGCACTCCACTGGCAGAGGGGCTGCTCATGGCCAAGGATCTCATGGCAAGG  
GAACTCCGAAAGGAACCCGGCCGACGCGCGATCCTCATGGTGATGACCGATGGCCAAGAC  
ACCTCCGATGCCGGCGAAGCAGGCATTGCCACCGCGGCGGAAACAGTGGTGAAATCACGA  
CTGTCCGGCAACGTGGTTCATCGACTGCGAAGGCCGACTCAAAGTGCGCAAAGAGCGCGCC  
GGGGTGTGGGTGAAATGCTCGGTGGTGTGCGTGAGATTGCGTGATCTTAACCTCCGAG  
CACATCAAAATGGTGATTAACGCC

>RXA01848-downstream

TAGACAACCAGAGTGAGGGTTTC

>RXA01849

CTGCCTGGTGTGGAGCTGCCGGATCTGATCTTGTGCGAGATTGCGTGTTGTGTGCACGT  
ATTGAAGTCGACGGTATGCGCGCTGACCTGGTGATCACGCGTACCGCACTTGCTCACGCC  
GCGTGGGCTGGACGCACTGTGGTTACGGAAGAAGACGTGGAGATCGCAGCTCGCCTAGCG  
TTGCCGACCCCGTCCCGTAATCCTTTTCGATGCTCCAGAAATGGAGGAGCGCAAGCTT  
CAGGAAACCTGCAGGAAGCTCGGGACTTCTTCAAAGACAATGAAGATAAAGGACCTGCC  
GCCAAGATCACCGATGAGGAAACCGGTGCAGAGGCCTTTACCGATACCGACAATCCCACC  
GAGGAAGACGGTCTGCAAGGAAGTGCAGAGGCGAAGGCGCAGACTACTGGAAAGGTAGGT  
ACTGCCGGATCCGGCGACCCCTTTTCGCTCC

>RXA01849-downstream

TAGGCATTTGCGCCTGGCGTCCA

>RXA01868-upstream

ATGCGGATCTGAACAGGCTGTCTGTTGCTAACTCATCGTTTTTCGAGCTGCTCTCGGCGA



ACTGGACCGTGAAGGCGTTGGCGCGCCAGTAGGTTTCTGG

>RXA01868

GTGGAGAAGGATTCTTCTCCAACGAATCCGTCGCCTATGTCATCCAGTCCGGCCTCGGC  
CTGCCCCGATGAGGCTTATTACCGCGAGGAGGCACACGCCGAACTCTCGCGGCCTACAAA  
GAGCACGTTGAGCGCATGCTCGGCTACTTGGATAACAGCCGCTCTTCGGTCTGTGCGGCT  
GCTTCCGCTGCCGCACGAATTGTGCGCCCTGGAAACGGAATCGCTGCTGGCCACTGGGAT  
GTCGTGAAGACCCGCGACGCCGTAGCCACCTACAACCCACCGAACTCGGCGCGCTGCCA  
CCAAAGGTCCGCACGCTGCTCAGTTCGCGAGGCTCCCGGACCAGCGCTGGTATCGATG  
ATGCCGTCATACCTCGACCACCTCAACGGCTTGCTTGTGACGACCGCTCCCCGATTGG  
CAGCTATGGGCAACCTGGCACATCTTGAGGTCTCGAGCAGGACTGTTGACCGAGGAAATT  
AGCCAAGCAAACCTTCGACTTCTATGGCACCAAACGTGTCGGCGGCCACCGAGCAAAAAGAT  
CGATGGAAGCGTGCTGTCGGCCTGGCAGAGCGCATGGTGGGCGAGGAAATCGGGCAACGA  
TTCGTGCAAGGCATTTTCTTGCAAGCTCCAAGGAGCACATGCTTGAGCTCGTACGACTAC  
CTGGTTGCGCGCTACCGTATCGCATTTCCAACCTCGAATGGATGACGCCCGCCACCCGC  
GAGCGTGCCCTGGAAAAGTTGGGCAAATTCACGCGAAAATCGGCTACCCCGACAAGTGG  
CGCTCCTACGAAGGCCTCGAATTCGGCTCCGACCTGGTGGACAACTCCCGCAAGGGCTCC  
GCGTTCTCTCCATGACTATGAGCTGGGCAAGATCGGCAAAACAGCCGACCGCGACGAATGG  
GTCACACCCCCACAAACCGTCAACGCCTTCTACAACCCCGTGGTCAACGACATCACCTTC  
CCCGCAGCCATCCTGCGCGCACCATTTCTTCGACCCCGAAGCAGAAGCCGCGAGAAAACCTC  
GGTGCAATCGGTGCTGTGATCGGACACGAAATCGGCCACGGCTTTGACGATCAAGGCAGC  
CAATACGACGGCGACGGCAACCTCAACTCCTGGTGGACCGACGAAGACCGCTCCGCATT  
GAGCAGCTCACCTCACGTCTGGTCACCCAATTACGCGGACTCGTCCCTGCCGTCTTGACC  
TCTGAAGGAATCGACACCGACGGCGTCAACGGTGAATTCATCTCGGCGAAAACATCGGT  
GACCTCGGCGGATTGGGCATCGCTGTGCTTGCCTACGAAAAGTACCTCGCAGACCGTGGC  
CAAACCTTTGAAACCTCACCGTCCAAAATTCGAAGCAGAAGGCGCGAGGAAGGCCTG  
GCCGAGCAAGAATTCAACGGTCTCCAACGCCTTCTCCTGTCTGGGCTCGCGTGTGGCGC  
ACCAAAATCCGCCCACAGATGGCCGTCCAATACCTGGCCATCGACCCACACTCCCCTGCA  
GAATTCCGCTGCAATGTCATCGCCGGAACGTGCTGAATTCTACGAAGCATTCGACGT  
CCCGAAGATGCACCTGTGTACATCAAGCCAGAAGAGCGCCTAGCTATCTGG

>RXA01868-downstream

TAGTTGTTAGTTGGTATTGAAAA

>RXA01869-upstream

TGACAGGCTACCTTCTGGGGTGGACATGATCCCCAACGCTCAACCCACTTGTGGCACCAA  
CCACAAACCTGTGGCGGTAAATCCCCTAGAGTAGGCCAC

>RXA01869

ATGAAGGATCTTTATCGCTTTGTCAATGGCCTGTGGCTTGACACCCACATCATTCCCGAC  
GATCGCGCGGTGGACGGCACGTTCCACAAGCTGCGCGATGATGCTGAAGAAGACGTCCAT  
GAGATCGTCAAGGAAGACACTGGACGCGCAGGCACACTTTATGCCTCATTTATGGTACT  
GACGCCATCAACGCTGTGGTGTGACCGCTCGATGCGGATCTGAACAGGCTGTCTGTT  
GCTAACTCATCGTTTTTCGAGCTGCTCTCGGCGAACTGGACCGTGAAGGCGTTGGCGCGC  
CAG

>RXA01869-downstream

TAGGTTTCTGGGTGGAGAAGGAT

>RXA01885-upstream

GTGGCGTCGAGGGATGTTCTGCGGCACCATTTTTGCTGAGGTGGAACCTCACGGATTAA  
ACACGGATTTTTCTAAGGTTAATCAAGTAAGGTTTACCTT

>RXA01885

ATGACTACGAAACCTATCATCCCAGAATCAACCCACTCCGCAGAACGTGCTGGTGGACAT  
TGGATCCTTGCCAGGCTTGAAAGAAAGTGCTGCGCCCTGGAGGTCGTGAAACAACGCAG  
TTCTGCTGGAGAACCTTTCTTTGACCGGTGCTACCGTGGTGAATTTGCTCCAGGACTT  
GGCGTGACTGCACGTGACATCCTTGGCAAGGGTCCGGCTCGCTACATCGGAGTGGATAGC  
GACGCGGATGCATGCGCAATGTACGTGCGATCTTACCTGCTGGTCTCACGAGGTGCGC

AATACAAATGCCACCGATACTGGCCTTGAAAGCGACTCGTTTGATGTTGTCATCGGCGAA  
GCGATGTTGACCATGCAGACCGATAAGCACAAAGTTGGAGCTGATGCGCGAGGCAGCTCGA  
ATTCTGAAACCAGGCGGGCTGTACGGCATTACAGAGCTGTCGCTGGTGCCTGACAATGTC  
TCCACTGCGGTGAAAGAGGATATTGCTAAGGCGCTGGCTCGTTCCATCAAAGTCAATGCC  
CGCCCCATCACGGTGCCGGAATGGGCTGCGTTGGCGCGTGAGGCAGGGTTTCGATGTGATT  
AATATTCGCCAAGCCGACATGGCCCTTCTATCCCTCAAGCGGAACCTGAAGGATGAAGGG  
CTAAAGGTGTCTTCACGATTGTGAGGAACGTGATTAGCCAACCGGATCTGCGCAAGCGA  
GTGCTCGGAATGCGAAAGACTTTCACCGAGCATAAAGATCACTTAGGTGCGGTTGGCATC  
ATTTTGCAGAAGAGAGCCCAA

>RXA01885-downstream  
TAGGGATCTGAAATGGAGGGGTG

>RXA01914-upstream  
GGTTTTGAGGAATGGCTAGGCTTGTTAAAAGTTAGTTTCAATTTGATGCCTCCCCAACCC  
AAAGCGGAGACACAACCTTCAACGAGAGGACTCAGCTTTCA

>RXA01914  
ATGGCGAAAAATGCCTACAGCACAAACAGCACCAACCAAGGTGTCCAAGGATGCCACTCTT  
CCAGTTTCGTGGAACGGTTCGCTGAACCTCAAGCTCGAAAAGAAGTTGCCAAAGAAGATTGAT  
GCCATCATCGTCGCGATTCTTTGAAGGCGAAGATTCCATCGAACTCGCCGGCGGCGAAATC  
CTCGATTTTCATCTTTCAGTACCGAGCAGCAGGCCGACATCCTCACTCAGCTCGAAGCTGTC  
GGCGCAAAGGCCACCGCAAACAGCATCACCCGCGTCCCAGGCACCGACGTTGCGCCTGTC  
ATTGCGGTTGGTTTGGGCAAGGCTGATTTGCTTGACGACGAGACCCTCCGCGCGCTTCC  
GGCACGGCGGCGCCGCTCCCTCGGTGGTTTTGAAAATGTCGCCACCACCATTGGCGATTTG  
GGAATT

>RXA01918-upstream  
TTGGTACGGGGGTTAACCAACCTAGCTTTGTATCTGAAGGCTTCGGAGATTTCTGTATAC  
ATCAACAATTGCCCTTTAACCAGGAGTATTCTTAGCTTCT

>RXA01918  
ATGACTCCTGATCTTGCAGCTTTTCTGGACAACTTTATGCCGAGGGGCAGGAATTTGAT  
GCAGAGCAACCGGATCGGCTTGATCGCAGGAGAAACCTTGAATCTGAAAAGCGCTGCGCTA  
CTTCGCTCGCTCATCTACGGAATTAGTCCAAAGTCAGTTCTCGAGCTAGGCACATCCAAT  
GGTTACTCGACTATTTGGATGGCAGATGTCGTGAATTTAACAACAGTAGACAATGATCCT  
GAGCGGTCTTTGGATGCTGCAGCAAACCTTCGCGCCGCTGGAGTTGAAGAAAAAGTTCAA  
CGAATCGTCGCCGATGGAGCAACCGTACTTGCCGATTCCGCCGATGAACAATGGGATTTT  
ATTTTCCTTGATGCCGAACAATCACTCTATGTAAATTGGTGGCCTGACCTGCAA

>RXA01918-downstream  
TGAGTTCTAGCAAATGGCGGCTT

>RXA01932-upstream  
TTTCTAACCTGCATCCAAGCCTAGGTGGAATTGAGATGACGCGTCGTAGAGATCGAAAAC  
TCAACCAAATTTCTTGCCTAAGGCTTCTAGGATTGTCGTT

>RXA01932  
ATGCTCCTTACCCAGATGCGCAGTTTTATATCGATACCTTGCCCACTCTCAGCGCGGAG  
GAGCAGGTGAGTTTTGGTAAAGACGCTCCTGTTTCAGAGGCTGATGCAACCCATGTGGCG  
ACAGATCAAGATATTGCTGGGGTGCCGGTGAGGGTTTATACGCCTTTATCTGGGGCTGGG  
GATTTGCCGTGTTTGGTGTACTTCCACGGCGGTGGCTGGTCCGGCGGCACCCCTCAACATG  
ATCGATGCCACGGTTCACCTCTAGTGGTTGGCCTGCCGATCATCGCCATCAGCGTGGAC  
TACCGACTTGCACCCGCACACCCATTTCCAGCGGCTATCGACGACGCGTTTGCAGTGGTC  
AGTGCCGTATTGAGTGGGGTGTCTGGGCTGAGTATTGATACTTCCCGAGTGGCAATTGGC  
GGTGACAGTGCCGGTGGAATATTGCCGCGGTTACTGCACAACAGCTGCGTGAACGGGCT  
GTGGGTTCTACTCCTGTATTGGCTCACCAGGTGCTTATTTTCCGGTAACTGATGTTTCC  
ACTACATCTACGCCGAGCTATCTCACATTTGGCAAAGATTGCTACCTGACAAAGGACGCG

ATGGAACGCTACATCGAACAATATGCCGATGGGCACGACCGCACCGACCCCTCGACTCTCA  
 CCGCTACTGGCATCTGATTTGAGCGACCTCCACCCACCACCATTGTGTACGGCGAATGC  
 GACGTGTTAGCCCATGAAGTGCGAGCCTATGGACAAGCTCTACTAGAGGCTGGAAATTC  
 GTGACGATGACTGAATTCAAAGGACAGATCCACGCCTTTATTAACCTAGGGGGAATCAGT  
 TCCGATGCGCGGGCTGCTCGACGACTCATCCGCGCCGAATTGGAAGCAGCACTTTGT

>RXA01932-downstream  
 TAAAGGTTGAGATTTAACATTCG

>RXA01933-upstream  
 CTAGAAGCCTTAGGCAAGAAATTTGGTTGAGTTTTTCGATCTCTACGACGCGTCATCTCAA  
 TTCCACCTAGGCTTGGATGCAGGTTAGAAAGGAGCCTTCG

>RXA01933  
 ATGTCTAAGACTCGTACTTTTCTGTTTGATCTTTATGGTGTTCATCAAGGAGCATGGT  
 GCGGCGCAGTTTGTAGCGGGTTGCGCGTGCGGTGGGGGAGCCGTCCAAGAACGACAAGCTG  
 CATGAGGTTTATGAGTCGCTTCGTCTGGATCTGGATGCCGGCCGCGTGAGTGAGGTGAAT  
 TATTGGAATCAGATCAAATATTGGTGGGTTTGGAGTTTTTGGATATCCAGGAGGTCATC  
 GCGGCTGACTACAGGGGCTTTATGAGCGTGATCAGGACATGGTTGATTATGTGTTGTGCG  
 TTGAAGGCGAAAGGCCACCGCATCGGAATTTTGTGCAATATTCCGGAGGGGTTGGCCAAG  
 CTGTTGAAGGAGCACAATTCGGAGTGGCTTGATCAGCTTGATGCGGTGACTTTGTGCGTGC  
 GATATTGGCGCGGCGAAGCCGGAGCCGAAGTCTTCCATGTGGCACTTGAGGCCCTTGGT  
 GAAAAAGCTGAGGATGTGACCTTTATTGATGATCGCGTGCCTAACATTGAGGCAGCGCGC  
 GAAGAAGGTCTCAGCACAATTCACCTTACTGGCTTAGATTCTTAAAAGAAAGCATTTCAG  
 GAA

>RXA01933-downstream  
 TGACACCTCAACCACTGATTTTG

>RXA01934-upstream  
 TTATTGATGATCGCGTGCGTAACATTGAGGCAGCGCGGAAGAAGGTCTCAGCACAATTC  
 ACTTCACTGGCTTAGATTCTTAAAAGAAAGCATTTCAGGA

>RXA01934  
 ATGACACCTCAACCACTGATTTTGCCTTTCGGCGATAAAGTTCCGCGGATCCATGAAAGC  
 GCATGGATTGCCCCGAATGCCACGATTATCGGGGATGTCGAGATTGGCCCCGATGCGTCC  
 ATTTTTTATGGCGTTGTCTGCGCGGTGACGTCAACAAAATCACCATCGGCGCCCGCAC  
 AACGTCCAGGACAATTGTGTTCTCCACGTCGATGGCGATGCGCCGTGCACCCCTCGGCGAC  
 GATGTCACGGTGGCCACATGGCGCTTGTTCACGGCGCGACGGTGGGCAACGGCACGCTT  
 GTCGGCATGAAATCTGCGCTGCTTCCGGCAGCCACGTGCGCGCCGGCGCACTCATTGCC  
 GCTGGTGGCGGTGGTGTGGAGGGCCATGAAATCCCGGCGAAAGCTTTAGCGGCGGGGTT  
 CCGGCCAAAGTGCGCAGATTGCTTGACGACGCCAGTCCCAGTCATTTATCCCCACGCG  
 GGCCGCTATGTAGAAACATCAAAGCCCAGGCTTCATCGCGGAAGCACTGAGCTTAGAT  
 GAGGTTAGGGTACGAGAG

>RXA01934-downstream  
 TAAGTGGCTCGTTGAGTAGTCGA

>RXA01967-upstream  
 GATGCCACCGTTGAGGCAGACAAAACGTGGGTGGACCGCAATGGGTCCGCTCATGTGGA  
 GTTGTGCGCAACCGTGCCACCGCAAACCCCAAACGTAC

>RXA01967  
 ATGCGCATCCAAAGCCCCATGGAAATTTCTGGAGTGAAGCGGTGCGCGAAGGCGGGGAG  
 CATTCCGCTCGCCGCTGTGGTGACATGGCTGTGTCCGCGTTGGCTAAGCCGAATCCCATC  
 ATTGACGATGATCCGGAAGGCAACCCCGATGTTTGCATGTATACCTGGATCGTTGAGTGT  
 CCCGGCGCTACCGCAGTGCTGCTATGGATCAATGGGGTTTTTGTATCACGAGCGCATTGAA  
 GAATCTGAAATGACCCGCTCGAGGGCTCTGATCTGTGGATTCTCAGCTGCGTATGCCT

TCCGATTGGCGAGCCAGCTACACCGTCAACGCCTGGTCTGGCGACGGGGTTGCGCCATGG  
 CGTGAGGCGGGCGATCGGATGCATATCCGCAAAGCCGCGATGTCGGGTGGGCGTCCGGAT  
 TCCCGCGCGATGGGTTCATATCATGGATTCCCTCGCTCGTTGAAGGCCCTGATGCGTTGCCG  
 GACTGCTGGGTTCGCGCGTCGACAAGCGTAAAGTCGTGGAAGAAACCGTCGCCGGCGAG  
 CATTTCTGGTTCTATGAGGCGCCGGTCAAGGCGCCGCTGCTGGTGCTGTTTGATGGCCAA  
 CACTGGAACAACAGCATGAATCTGCCTGCGCAGGTCGATGCGGCCATCGCCATCGGCTTG  
 CTGCCGCCGGTCAAGCTGCTCATGATCGATTCCGTC AACACCGAACGCCGCTGGGATAGT  
 GTCGGCGTGCCAGGTGGGCGAGTTGATGTGCTTATCGACGCCCTCCTCCCGCACGTCCGC  
 GAAACCTACAACGTTTCCGCGCGCGGCGAAGACACCATTTGTACCGGTGCAAGCTTCGGC  
 GGCCTGGCGTCCCTGTGGGCTCTTGGCTTTCCGACGGCGAAGTCGGCCACGCAATCGCG  
 CAATCGCCAAGCCTGTGGCGCTTCAACGTTGCCGACGCGCTTTCTGCAGCAGAGCAGTGG  
 AGCTCAATCCACCTGCAAGCTGGAATAACGAAGGTGAAATGCTGCGCCTGTCGCATCAG  
 CTCGCCGAAGATCTCTCCGGCGACATCCGCGAGGTTCTGTGCGCGGCGTGCATGGCGGC  
 CACGATTGGGCCTGGTGGCGGGTGCATATGCTCACCGAACTCACCAGGCTGCTTAAAC  
 CTC

>RXA01967-downstream  
 TAATCAAAGTAGGGTGCAAAACG

>RXA01971-upstream  
 AGGTCTTGTATTATTTCCGGCTACTGATTAGTAGCTGCGCTCCGATAGGATTCTTAGTTTT  
 CAGTTAGTATCTTTGAGCCACGGCTAGAATGTGAATCCT

>RXA01971  
 ATGTCTAAGAAGAAGCCTCGCCCCATTCCGGTTCTTGCCCAATTTATCCCTGGTCTCATT  
 GATGCGCATACACATTTGGCATCGTGTGGAGGAGATCTTGACAGGGTTGGTGGAAAGGGCC  
 AAGGAGGCGGGCGTCGAAAAGCTTTGTACCGTCGGTGATGGTTTGGCTGAGGCCGAGCTT  
 GCGCTGGAGGCGCGCAACAGTTTGGCAATGTGTTTGTGCTGCGTGTGCGATTATCCGACG  
 AAGGCTGATCAGTTGGATGGGGCTGCGCGTGCAGCGGCTGACGCAGATGGCGGCGGATCCG  
 AATTGTGTGGCCATTGGTGAGACTGGTTTGGATTCTGATTGGATCAAGCACGATCCAGAG  
 GACACGGCGGCGTGGATGTGCAAGAGGAGGCGCTGCGCTGGCATATTGATTGGCAATT  
 AGTGCGGATAAGCCGTTGATGATTACAAATCGTGAGGCGGATGCTGATTGATGCGAGTG  
 TTGGCGGATGCTCCACCTCCAAAAGATACGATTCTGCATTGTTTTCTTCGCCGTTGGAC  
 GTGGCGAAGGAAGCGTTGGATCGTGGATATGTGTTGAGTTTTGCGGGCAATGTGACGTTT  
 AAGCGTAATGAGGAGTTGCGGGAGGCTGCTCGTATTGCGCCGATTTCCAGATTTTGATT  
 GAAACCGATGCGCCGTATATGACGCCGAGCCGTTTCGGGGAGTAGGAATGAGCCGTCG  
 TTGATTGGTCATACGGCGCTATGCATTGCGGAGGTTTCGGGGATGGCTGTGGAGGATGTT  
 GCGGCGGCTTTGAATGAGAATTTTGATCGCGTTTATGGGGTCACAAATCTA

>RXA01971-downstream  
 TAACGTGAGGTAGCTCACAGTCA

>RXA01993  
 GCTGGAAGTGGCGCGCAGGATGGCGACCGCAGCCAGGGCGTTAATGGGTATGTCATGAAC  
 ACCATTACCCAGATTGATCGTTTTTCTCATTACTTCTGGGCATTCATGCGCAACTAC  
 CGCCTGGAAGCCAAACCATCACCCAGCTGCGCGACGGTGATCCGGTGATTCAA  
 GAAGACGAAGACATGCTGACCGCTCAGCAAGATGCCATCGACGCCAACACCGACTACGAG  
 TTTTACAGCCTCAACATTGATGCCGGTGGCATGTGGGTGCGCCGAATCCTCGAGGAAGCA  
 CTCTCCAAGGAAGGCCGACTGGATATCCCCACCACATTCCCCCGCGCAACACCGAAGCCG  
 GAGGCA

>RXA01993-downstream  
 TAAACCATGAACTCGCAATGGCA

>RXA01994-upstream  
 GTGGGTGCGCCGAATCCTCGAGGAAGCACTCTCCAAGGAAGGCCGACTGGATATCCCCAC  
 CACATTCCCCCGCGCAACACCGAAGCCGGAGGCATAAACC

>RXA01994

ATGAACTCGCAATGGCAAGATGCACATGTTGTTTCCAGCGAAATCATCGCTGCAGACATT  
CGGCGAATAGAACTATCCCCGAAATTTGCGATTCCAGTAAAACCCGGCGAACATCTCAAG  
ATCATGGTGCCCCCTAAAACTGGACAGGAAAAGAGATCGTACTCCATCGTTGACGCTCGT  
CACGACGGTTCGACTCTCGCCCTGAGCGTACTCAAACCAGAACTCCCGTGGAGGATCT  
GAGTTCATGCATACGCTTCGAGCTGGAGACACAGTTACTGTCTCCAGGCCGTCTCAGGAT  
TTTCTCTCCGCGTGGGTGCGCTGAGTATGTACTTGTGCGCGCGGAATTGGAATCACA  
GCGATCCGTTCAATGGCATCTTTATTAAAGAAATTGGGAGCGAACTACCGCATCCATTTT  
GCAGCACGCAGCCTTGATGCCATGGCTTACAAAGATGAGCTCGTGGCAGAACACGGCGAC  
AAGCTGCACCTGCATCTAGATTCTGAAGGCACCACCATCGATGTCCCAGCATTGATCGAA  
ACCTTAAACCCCCACACTGAGCTTTATATGTGCGGCCCCATCCGCTTGATGGATGCCATC  
CGGCGCGATGGAACACCCGCGGACTTGACCCCAATCTGCGTTTCGAAACGTTTGGA  
AACAGTGGATGGTTCTCCCCAGAGGTTTTCCACATCCAAGTACCAGAGCTGGGGCTTCAC  
GCCACAGTCAACAAGGATGAAAGCATGCTGGAGGCTTTGCAAAGGCTGGGGCGAATATG  
ATGTTTGATTGTGCAAAAGGCGAATGTGGTTTGTGCCAGGTTTCGCGTTCTAGAAGTCGAT  
GGCCAGGTTGATCACCGCGATGTGTTCTTCTCTGATCGTCAAAAAGAATCCGACGCAAAG  
GCATGCGCCTGCGTGTCTCGAGTAGTCTCCTCCCTTCTCGTCCCCAACCTCGACCATT  
ACGGTCGCCCTCTCC

>RXA01994-downstream  
TAAAGGAGCCTGGCATGGATATC

>RXA01997-upstream  
AAAAAGGTGGGAACTTAGCCAATCCAAAGCCCCAAAATGCGGGTTATGCTGCGCTAACCT  
TATGCTGACAGCCTTGCGGAAGTTGTGTACGTTAGGGGCC

>RXA01997  
ATGACAATCAACGAGAAGATCGCATCAGCTTTCAACAACCAAGTGACTGCAGAGCTTGAA  
GCTTCAATGGTGTACCTTCAGCTCTCCTACGTTCTAGACGATCTGGGCCCTCACCGGCATG  
CGGAGTGGATGAAGGCACAGAGCAAAGAAGAGCTCGAACACGCACAGAAGTTTCGCTCAG  
CACCTTCTTGACCGTGACTACCCCCACAGATCGGTGACATTGCACCACCAAAGCTTGAT  
GTCACCTCCGCTATCGAGGCTTTTCGAGGCTTCCCTGGCACACGAGCAGAAGATCTCCGGC  
CTGATCCGCGAGCTCGCTGCCATCCAGGACGCTGAGAAGGACTACGATTCCCGCGCACTG  
ATCGACTGGTTCCTCAACGAGCAGATCGAA

>RXA02000-upstream  
CAACGAAACAAATGCAAGCCCCCAATCATGGGTTTCTACCAATTAAATTTTCTTTTCAGAA  
AATATCTCCCCACATAAAAGTTCCTTGATAGGCTCGAGAG

>RXA02000  
ATGAAAGTGACCCAAAGCACATTCTTAAATCGGTAGCTGCGTTCCTGTGCGAGCCTTA  
ACCTTGACCATCTCTTCGTGTTCCAGCGGTGAAGACACCTCCGCAAGCTCCACGGATACT  
GAAAACCTCCTCAACCCAAGCAGCAGCGTCTCCCCACTTGCGCCTTGTGAACCTCCCGCC  
GACGCTTCTGCTGAAGAGGAAGTAGAAGGCACTCACACAGGTGAAGATATTTCTGTTGCC  
CCGGAAATCGGTACCGGCTACCGCGAGGGCATGACCCCTGTTCAAACCCAAGGTTATGCG  
GTGGCAACTGCAAACCCCATCGCTTCTGAAGCAGCCTGCGCGGTGTTAAGAGAAGGCGGC  
ACTGCAGCTGATGCTCTTGTACCGCGCAGTTTGTGTTTGGGACTGACGGAACCGCAGTCG  
TCTGGCCTTGGTGGTGGCGGATACATTCTGTACTACGACGCCGAAGCCAATGCGGTGACA  
GCCATTGATGGCCGTGAAACAGCG

>RXA02010-upstream  
CCTGAATAAACCCCTATTTTTCTAAAAAGTACACTTTGCCGTATAGAAATTCAGTCAACC  
AAGAGTACTCTGTCCACC

>RXA02010  
ATGGTTTTTACTCTTGCGGACTCCGTCTCCAGGTTGCGCTAGGTCCGTCTGGCTGGAC  
CCTATGGAACCTCTTTCCGGCTCCGGCCCGTTCCGGTAGCTTCATTCTTCCGGCGATGCTT  
GCCATTGTCTTTATCGAATCAGGCCTACTTTCCCACTTCTACCAGGTGATTCTCTCCTT

TTCACCGGTGGTCTCCTAGCTAACCAGGCTGACCCTTTTGCACCGCTGTGGCTGGTGCTG  
 ATCCTCTGCCCTATCGCCGCAATTCTTGGCGATCAGGTGGGTACTGGATTGGCCACAAG  
 TTCCACCCTCGCCTGGTCAATCGTCCGGATGGCAGGATTTTCAAGCAGGAATACCTCAAG  
 CAGACTGAGGATTTCTTTGAGAAGCATGGCCCCGTGACGATCATTTTGTGCCGTTTCGTG  
 CCCATCGTCCGTACTTACGCACCTCTG

>RXA02012

TTCACCATGACACTGTCCGAACGCAAGCTCACCACCACCGCCAAGATTCTTCCCCACCCA  
 CTCAACGCCTGGTACGTGCGCGCTTGGGATTATGAAGTCACATCTAAAAAGCCCATGGCC  
 AGGACAATCGCCAACAAACCACTCGCTTTGTACCGCACCAAGATGGCCGAGCCGTTGCC  
 CTTGCAGACGCCTGCTGGCACCGCCTCGCACCGCTATCCAAGGGAAAACCTCGTGGGCACA  
 GACGGAATCCAATGCCCTTATCACGGCTTGGAGTACAACCTCCGCGGGCCGCTGCATGAAA  
 ATGCCCCGCGCAGGAAACCCCTCAACCCGTGAGCAGCCGTCAACTCCTACCCCGTGGTGA  
 GCCACCGCTTTGTGTGGGTGTGGCTGGGCGATCCACATTGGCAGATCCCAACCAAGTA  
 CCCGATATGCACCAGATGAGCCACCCCGAATGGGCAGGCGATGGACGCACCATCTCCGCT  
 GACTGCAACTACCAATTAGTGTGGACAACCTTGTGGACCTCACCACCAAGAGTTCGTG  
 CACTCCTCCAGCATCGGACAAGACGAACCTTAGTGAATCAGAGTTCGTGGTCACCCACACT  
 GAAGATTCCGTGACGGTCACCCGCTGGATGCATGACATAGATGCACCACCGTTTGGCAA  
 AAGAACATG

>RXA02016-upstream

ACATGGAGCTCATCCGCAGCGGTCCACCAGCAGAAATGGTGGGCATCGGCACGCCTCTAC  
 CGTTCCCCACCTCACAACCGGACATTCACTAGGACACACT

>RXA02016

ATGTCAAACCTTTGAAACGTTCTCTGGGTTGCCTACCCCTGGCTGTGTATCGCCGCCTAC  
 ATCATCGGCATTTCTTGGCGCTGGCGCGCCGACCAATTTCGGTTGGACCAACCACTCCTCC  
 CAAATCTACGAATCCAAACCTCCTCCGCATCGCCTCCCCACTCTTCCACTGGGGCATGGTG  
 TTCGTGGTGATCGGCCACCTCATGGGACTTGCCATCCCCAAGAGCTGGACCCAAGCTGTA  
 GGAATTTCTGACGCCGCTTACCACCTCATCGCCACCATCCAGGCACCATTTGCCGGCATC  
 GCTGCAGTCCTTGGACTCATCGGCTTGATTATCCGTGCGGTGATCAACAAAACCGTCTTC  
 CTGTCCACCTCACGCTCCGACAAAGTGATGTATGTGCTACTCGGCGCTGCAATTTTGTCC  
 GGTTCATCGCCACCGTCTCCACCCAGGTCTTCGGCGGCGCACACGGCTACGACTACCGC  
 GAAACCATCTCCCCATGGGTGCGCAACTGCTCATCTTCAACGCTCAACCAGAGCTCATG  
 GCTGATGTCCCTTGGGAATTCAAGGTCCACATCGTCTGCTGGATTACCCCTCATCGCACTG  
 TGGCCATTCAACCGCCTAGTCCACGCGTTCTCCGCACCAAGTTGGATACGTCACCCGCCCC  
 TACGTGGTCTATCGCACCCGCGACACCACTCTGAACCGGCACGCCAAAACGTTCGCCTGG  
 GAACCGATCCGCTCGGTCAAAAATCAGCTCGACAATGACTCGAAATGGCACGGCGCC

>RXA02016-downstream

TAAATTCTCACAAGCCCCCTAG

>RXA02017-upstream

GCCTGTGGCACGGGAGCTCCCAGCGGCAAGGTGAGTCTGACCTCGTGGAACGTTGGCGAA  
 CGCCCCGCTGCGATGTTCCACCAAGGAAGGACTAGGCGG

>RXA02017

ATGCGCACCCATACTGGCAAAATTCCGGATCACTTTGTGCCCTCGCATCTCCATGACGGAG  
 GAGCAGCGGCGCGTGGTGTTCATGCTGAATAGTTTGTGTTGGATTATCCAGAGGAGGGA  
 TTCGTGACAAAGCTAAATGCCGTGAGGCGCAGCTTGATGTCTTCCGCTCCCCGTGCGG  
 GCGCACGTGGTCGAGTTCTTACGCGGCGACGCGTGGGCTACGCGCCATGCAGGAA  
 GCCTACGTTGAGACCTTTGACCAGCGCCGACGCTGCTCACTGTTTCTCACCTACTACGCT  
 GTGGGCGACACCCGGCAGCGCGGCACGGCGATCCTCACCTTCCGTCAAACGCTGCAACAG  
 CTCGGATTTGAATCCGAGCGCGACGAATTGCCCCGACCACTCTGCGTCGTGCTTGAGGCC  
 GCAGCGCTTGCTGATTCTTCGCTTTTCGACGCGCGCCACCCAGGTGTTATCAGCTCACCGC  
 GACGGCATCGAAGTGTGCGCGCAGCCCTCGACAACCTCGACTCGCCCTACAGATACCTG  
 ATCATGTCTTTGTGCCAGGCATTGCGAGAAATCGATGAAGAAACCGCCAACAGCTACATG  
 GAGCTCATCCGCAGCGGTCCACCAGCAGAAATGGTGGGCATCGGCACGCCTCTACCGTTC

CCCACCTCACAAACGGACATTAC

>RXA02017-downstream  
TAGGACACACTATGTCAAACCTT

>RXA02018  
CGCATCTGCGAGCACTGCCTCAACCCACCTGTGTGTCTCCTGCCCATCCGGTGCTATG  
TACAAACGCGCCGAAGACGGCATCGTGCTGGTTGACCAGGATCAATGCCGTGGCTGGCGC  
ATGTGTGTTTCCGGCTGCCCCACAAAAAGGTCTACTTCAATCACAAATCGGGCAAGGCC  
GAAAAGTGTACGCTGTGCTATCCGCGCCTCGAGGTCGGCCAGCCGACCGTGTGCTCCGAG  
ACGTGCGTGGGTGCTTGGCTACTTGGGCGTTTTGCTTTACGACGCCGACCGTGTGCTGCT  
GAAGTCGCGCCACGCCAGACGAAAAGGATCTTTTCGAAGCCCCAAAAGACCTCTTCCTA  
GATCCCCACGACCCACAGGTGATCGCCGACGCCAACGCAACGGCATCCCGCACTCCTGG  
CTCGAAGCTGCGCAGAACTCTCCAATTTACGATCTCATCTTCAAATACGAGGTTGCCCTC  
CCGCTTCACCCTGAATACCGCACCTTGGCGATGGTTTGGTACATTCCGCCACTAAGCCCC  
ATCGTTGATGAGGTGACCGCTCCGGCAACGACGGCGAAGACCACAAGATCCTGCTCACC  
GCGCTGTCCACCATGCGCATCCCGCTGGAATACCTGGCTGGATTGTTCACTGCCGGTGAT  
ACCAGGCCGGTGAAAAATCCCTCCGACGCCTAGCCGCCATGCGATCATATATGCGCGAT  
ATCAGTTTGGGCGCGAACCCTCAGGAAGAAATCGCAGAGGCTGTGGAATGACCGGCAAG  
GTGGTGCAGGAAATGTATCGCATCCTGGCCATTGCCAAGTATGACGATCGCTATGTCATC  
CCCCACGCTCCCTGAGACCCCGCGCGGAATTTCTTCCCTGGATCCTTTCGGCGATGTC  
GATCCAGCCCCGAGCCACCGAGCAGCTCAACATCGGTTTGGGCGAAGGCGCTCCAGAGGCC  
TGTGGCACGGGAGCTCCCAGCGGCAAGGTGAGTCTGACCTCGTGGAACGTTGGCGAACGC  
CCCGCTGCGATGTTCCACCAAGGAAGGAC

>RXA02018-downstream  
TAGGCGGATGCGCACCCATACTG

>RXA02048-upstream  
GCGCGGCGGATAACAAGCAGACCGCGTTTTGTGGAATCGCTGATCTACACCTGGATCGAA  
AGACTTTGGATCAGCAGGGTAGCATTTAATACCTATGATT

>RXA02048  
ATGCGAAGGCTGCGCTCCACCCCGGTCCCTGGTACACGCGATTCTTACACAGGAATTGAT  
TTCAACTTAGGCTTCCACATCCGACGCTACGAGCTTGATCTCACCTACCGCGTAGCACCC  
AACCTGCTCATGGGCACCGCAACGCTGCACATGGATAATTACCGTGCGCTCGACGCGCTG  
ACCCTGGACCTCGGCGGCGAGCTTGGCGGTGAAAAAGTCACCGCCAAAGGCACCGCCGGC  
ACCCACATCCCAAGTCGCGCGCTTCCGCCACGCCGCGCCGAACTGCGCATCACCTTCCGC  
AACCAAATCCCGGTTGACCAGGAATTTTCACTACCATCCGCTACCGCGGCAACCCGCGC  
CCCCTGCGCAGCGAATGGGGCATGATCGGCTGGGAAGAGCTCGACAACGGCGCCCTCGTC  
GCCGCCCAGCCAAACGGCGCGCCGAGCTGGTTCCCCTGCGACGACACGCCCAGCAGAAG  
GCGCTTTTCGACGTCCACTTCCACACCGACAACGGATACGCCGCCATTATCACCGGTGAT  
TTAATCTCAAAACACGTCAGTGGCAGCATGACCACCTGGCACTACCAATCCCGCGAACCC  
ATGGCCACCTACCTCGCAGCCGTCCACGTGCGAGAATACGACACTGTATCCCTGGGCGTT  
TCGGAATCGGGCGTTGTGGTGGAGGCGTATGTGCCTGTGGGGGATGCGGCCCTGCGGGCT  
CGGATTTTGGAGGACTTTGCCAAACAAGTCGACATGTTAGACGCCCTACGAAAAACTCTTC  
GGCCCTACCCATTCCGCGAGCTACCGCGTAGTCATACCGAAGACGAACTCGAAATCCCA  
CTCGAAGCCCCAAGGCTCTCCAGCTTCGGAGCCAACACGCCACCGGCGAAGGAACCTGG  
GAACGACTCATCGCCACGAACTCTCCACCAAGTGGTTTGGCAACTCACTCGGCCTCGCC  
CAATGGAACGACATCTGGCTCAACGAAGGCTTCGCCTGTTACGCGGAATGGCTCTGGTTT  
GAGGCAGCTGGAGTTAAGTCGGCTGCGGAAAGTGCCTTGAATTTATCGAGGCCTGGAG  
GCGCTGCCGAAGGATATTTTGGCTGGCCAACCCCGCGCGGAAGGATATGTTGACGACCGC  
GTCTACAAGCGCGGCGCTCTGACTGTCCATGCATTGCGGGAATTGCTTGGCGATGATGCA  
TTCTTCAAAGCTGTGCGCTCTACGTTGCCGAAGGCCGACACGGACTCGTTGAACCCCGC  
GACCTGAAACGACACCTCTACGCGAGTCTCCACAGACCACGAGCTTTAGATGCAGTGTGG  
CAGTCTGCGTTCGCGATCTGGAGTTGCCGGAGTTTCCTTCTGGTGGTTTGGAC

>RXA02048-downstream  
TAGTGCGCTATCTGACGCTGGCC

>RXA02052-upstream

CCTCGGCGTCGCACTCCTTCTAAGCTCCTGTTCTTCAACATCTTCCGATGAATCAATCCA  
ACCTGAAGTTGCCAGCACTGGATATTCAGTGGAGCACGCA

>RXA02052

ATGGGCACCACCGAAATCCCTGAAACCCCAACGCGTGTGGTCGTCATTGATTCCCCACAC  
CTCGACGCACTTTTGGCTTTGGGAATTACTCCAGTCGGAGCTACGGAATCTGGATCCGAA  
AATGGTTTCCCCGCCTACTTGGCTGACGAGCTAAAAGACACCGAATCTGTTGGGCTGACA  
TCTGAGCCAAATTTGGAAAAGATCGCCGCACTGGATCCGGATTTGATCATTGGCGCAAAG  
GTCCGCCACGAGGCTATTTATGATCAGCTTTCAGACATCGCACCAACCGTGATGTCCGAA  
GGTTCGGGCACAACTGGAATGAACAGGCAGAAATCACTGCGGCAGCAGTAAACAAGTCT  
GATGAGATGGACAACTGATCTCAGACTTGGACACCCGTGCCACAGAGCTTGGTGAAGAG  
ATCGGTGCTGACGGACAAACCGCTTCAATGGTTCGATTCCGCACGGACAACCTTCAGGCTC  
TATGGTCCCGAGACCTTCTCTGTTTCAGTTCTGGAACAAGTTGGATTTGACCTGGGGGAA  
CGTGATTGGAATGAGTACTCCATGATGGAGCTATCCTCAGAAAACCTTTGGGCAGATCGAT  
GGAGACCTTATTTTCTACACCATCCCAGGATCCCCTGAAGCAACCACTTATCCAAAGATT  
TCCGAACGTGTGGGTTGATTACCCAGCAGTTCCGCAAGGTAGAACTTACGAGTTTGAAGAC  
GAAACCTGGATGGTCGGCATCGGTGTATTAGGTGCCAATGAAATCTTGGATGACCTGGAA  
GAAACTCTGAGC

>RXA02052-downstream

TAGTTTCCTTTAGGCCAAGCAAC

>RXA02064-upstream

CTAGATTACATCCTGTGCATCTTCTGGCAATTGTGAATTCATTTGCACTTAATGCGTGTA  
GGTACTTCACATCTCGCCTGCTCGCTCTAGACTATAACGC

>RXA02064

GTGAGTAACGCCTTCGAGTATCTTCGCACTTATGTGAGTCCACTACTGAAACCGACGCT  
GCTGTAGCGCGCGCTCGTGAAGACGCCCGGAGTTTCGGTCTCCCCGCCCCGGATGAAATG  
ACTGGCCAGCTGCTAACCACCTTGGCTGCCACCACCAATGGCAACGGCTCCACTGGTGCC  
ATCGCGATTACCCCGGCTGCCGGGTTGGTGGGTCTGTATATCCTGAACGGACTGGCCGAT  
AACACCACACTGACCTGCATTGATCCTGAATCAGAGCATCAGCGCCAGGCCAAAGCACTC  
TTCCGCGAGGCGGCTATTCCCCAGCCGCTACGCTTCTTGCTCTCGCGCCCGCTCGAC  
GTGATGAGTCGCCTTGCCAACGACAGCTATCAGCTTGTCTTCGGCCAAGTCTCCCCATG  
GATTTAAAGGCGCTTGTGACGCGCCGCTGGCCGCTTCTTCGACGAGGCGGTGCGCTGGTG  
CTCGCCGATGCGCTCCTTGACGGCACCATTGCGGATCAAACCCGCAAGGATCGTGACACC  
CAAGCAGCACGTGACGCCGATGAATATATTGTTCCATTGAAGGCGCACACGTTGCTCGC  
CTGCCCTTGGTGCAGGCTTAACCGTGGTGACTAAAGCC

>RXA02064-downstream

TAGAGGGGACGTGAGAAAGCGA

>RXA02083-upstream

TTTTTGTACATGGTCTGTGGCACGCATTGTTTCGTTTGCCCTGCCATGTTGGTGTTTTAA  
GTGAAGGCCGCTTTTGCGGAATGGGTATAGGAGGCATTTC

>RXA02083

ATGGAGATGGTTATGAAGAATAAGCGCGTTGCGATTATTGGTGCAGGTCCGAGTGGTATC  
GCTCAGTTGAGGGCGTTTGAAGTCTGCTGAAAAGCAGGGGCATGAGATCCCTGAGCTGGTG  
TGTTTTGAAAAGCAGGATACCTGGGGTGGGCAGTGGAATTACTCTTGGCGCACGGGAACA  
GACTCTTATGGTGAGCCTGTGCACTCAAGTATGTACCGAAACCTGTGGTCAAACGGTCCG  
AAGGAAGTTCTCGAATTTGCTGAGTACAGCTTCGATGAGCACTTCGGAAAGCCAATTTCT  
TCTTACCCTCCACGTGAAGTGTTGTGGGATTACATTGCAGGTGCTGCAAAGAAGTCCGAAC  
GTTGAGAAGTACATCAAGTTCGCGCATGTTGTTGCTGGGTGAGTTTTGATGAGGCCACC  
AAGCTGTTACCGTGACGGTGGAGAACCCTCCGCACCGGTGAGACCAGCAGTGATACTTAT  
GACAACGTGATTGTTGGCGCTGGACACTTCAGCTTCCCGAACGTCCCTCACTTTGATGGT



GTGGAGACTTTCCAGGTCAGATCATGCATGCTCACGAGTTCCGTGGTGCAGAGGCTGTT  
 GCTGACAAGGATATTTTGTGATTGGTGCAAGTTATTCTGCGGAAGATATCGGTACCCAG  
 GCGTACAAGATGGGTGCTCGTTCGGTGACTTTCTCTTACCGCTCAAACCAATGGGGTAT  
 GAGTGGCCTGAAGAGATGACTGAGCTTCCTTTGGTTGAGCGTTTCGACGGCTCCGAGGTT  
 CACTTTGTCAATGGTGAAAAGCGCAAGGTCGACATCGTGGTGTCTGTACTGGTTACTTA  
 CACCATTACCCATTTATGCCGTCTGAGCTGACTTTAAGCTCACCAAACAACCTGTACCCG  
 GATACGCTTTATCGTGGCGTGGTGTCCGAGGCTAATAACCAGCTGTTCTGGTTGGGTGCT  
 CAGGATCAGTGGCTGACGTTCAACATGTTTGATGCTCAGGCTTGGTATGTTTCGCGATGTC  
 ATTTTGGGCCGCGTGGCTCTTCCTTCCAAGGAAGCGCAGCGCAATCATATGGATAAGTGG  
 CTGTCACGTTTTCGAAGGCTTGAAGTCTGAGAATGATCAGATTGATTTCCAGTGCGATTAC  
 GTCGAGGATCTTATCGATCAGACCGATTATCCTTCGTTTGATCTGAAGGAAGTCGCGAAT  
 ATCTTGAAGGGCTGGGTGAAGTCAAGGAGGAGGATATCCTCAACTACCGTGATTACACC  
 TATACTTCCGTGATGACGGGCACCACCTCTGTTGAACACCACACTCCGTGGATGATTGAG  
 TTGGATGATTCTTTGGAGCGTTACCTCAGTGAGCCACAGGAAGATGAAGCTCGTCAGGTT  
 TACCGTGGCAAGAAAGTCCGCGATAAAGCC

>RXA02083-downstream  
 TAAGGAAAAGGCCCTAAGCAGCCC

>RXA02092-upstream  
 GCATAACTGCATATTCATCAAAGCGTTGCCGGTCACCTGCTTCGTGCCTAGCCTGGGAGG  
 CATGAATAGTTTCGACGTGGACACCTCGGTACTCACCGCAT

>RXA02092  
 ATGGCTAACAGTGCAGCGGGTTTCGGTGTGGCGGATGAGATGGTGGTTCCACCTCAACA  
 GGGTTTGTAAAGGCGTCAAAGGACCAGGGCTTAAACCTGGAGGGGAATTCCCTACGGC  
 CGAAACACTGGCGGAAAATATCGCTTCGGGGCACCCCGGCCAAGAAATGGGACGGC  
 GTGCGCGATTGCTCAATGTTTCGGTGAAGTAGCTTCTCAGCCAACGTACTCCTGGACAGAT  
 AAGATTTCGCGGTTTCAGAAAGACTGCCTTAACCTCGATGTCTGCGGCCTGATTCCGAAGAA  
 AAGCTTCCTGTTGTGGTGTATCTCCACGGCGGTTTCCTTCATCATGGGCTCATCAAGCGAA  
 AAAGCGCTGCGCGGATATAACCTCGTCACAAACATGAATGTGGTCTACGTGTCCGTTAAT  
 TTCCGCTTCGGCGCTTTTGGGCTATCTAGATCTGCGTTCCGTGGGGGAGGATTGCGTAGCC  
 AACCCCGCGCTCCACGATCAGCTCCTGGCCCTGCAGTGGGTGAGCCGTAATATCAAAGCA  
 TTCGGTGGGGATCCTGACAACGTACCCCTCATGGGCGAATCCGCGGGCGCTGCAGCAGTG  
 GTTGCACTCATGTGTGTGCCCGCTGCAGGAGGACTATTCACCGCGCCATCGCCCAATCC  
 GCGCCGGTCATCTCTGTGCACTCATCTACCCAAGCAAAATTCCTGGGCACGTGAAGTATC  
 TACCGCATGGCATTGCCAGGGAAACCACCTTGGATGAACTGCGCCAAGAATCCGCCGAT  
 GATCTAGTGCGCGCCGGGCGAGTCGATGATGTGGCGCTCCGGCGAAGTGTCTCAACTCAAC  
 TCTTGTTACGGGGCCACGGTGGATGGTTTCCTTGCTACCTGAGCACCCGCTCACCATGTTT  
 GAACAGGGAAGACAACACCGCATTCCTTCATGATCGGTACTAATAACGGAGAACTTCT  
 TTCTCCAAAGCCTTTTATTTAAGAAGCTCTGCCGACGTGCTCTGCCTTACGCATGCTG  
 TCTGTGTATGATCCCCACAATGCAGAACGCGTGTTAGCGCCTATGGCGGAGGCGAGGCA  
 CGCACAGACTTTTCTGAACTACTCGCTGACGCGCTGTTCTGGGCACCGTCGGTTAGATTG  
 GCGCAGTCGCACGCCTCCCAAGATGAAGATACCTGGATGTACCGCTTCGATTACGCCCCA  
 CAATCCATGCGGAAACTTGGCCTCGGCGCGATTCACTCTTCGAACTCAACGCTGTCTTT  
 GGCGATCATGAATCTTCTCGCTCCATGAACCTTGCAGAAAATTGCCGGCGGCATGGATCAT  
 TTGGATAAAGTCACCGAACTTGTCCAAGAGCATTGGAAGCAATTCATCTACTTCCGGCAGG  
 CCCGGTGAAGAGTGGAAGGCTTACCGCGGGCCGAGCGATACCGAACCAGGCGCGTGTACA  
 TTTGTCATCGATATCAACTCCCGAATCGCGTGGGATCCACGCCAGGACAAACGCACGGCG  
 TGGGAAAATTACGACATGCTCGAATGGGGCACAGGCCGCCAGATCTAGCCAACGAACCTT  
 GATTTTCATCGAGCCGGAAGAGACAGAAGAAGAGCAGCAATTGAAGTGGCTTAGCCTTATG  
 CAGTTTTTTTGAAGTAGA

>RXA02092-downstream  
 TAAATGAGCATCTGGAAACGTCT

>RXA02098-upstream  
 CCCCATTTCGGCGACCTCGACTCCATGAAAGCAAGAGTTTCACCACATTTAACGTGGGGT  
 ACCTGTGTGCATCGGGGTCAAACCTGCCACTATAGAGGGT

>RXA02098

ATGGATGCGACTTTTTGGATCATTGGACTAGTAGTCCTCGTGGTTCTCGCGATCATCATT  
GTATTGATCGTAGGAAATCAGCGAGGTAATCAAAGACCGTTAGTTTTGAAAAACCTGAA  
GAGAATAAAAAAGAACTAACCCAGCAAGAGAAGTCTGGAAATTACCAAGCCCAAGGTGGA  
TTCAACTTCGCCCCAGCTAAACAAACAGAAGAGCCAGTGTGCGTGAAGGCCAAGATCTT  
GGCGCACCAAAGGCTGAAACAACACCGATTGTTCCACCAGTAGTTATTCCGCCGGCAGCT  
CCTGAAGAGGAAAAAGGCGCCGGAGCAATCGACTGAAACTTTTCGAGCTCAAAAGCCTGCT  
GAAGAAGCACCTGCAACTCCTGAACCAGAAACCTCTGATGATGTTGTCGAGGAACCAGAA  
GTTAAGGAGCCTGAGGTTAAAGAAGTTGTCGCTGTTGAGCCAGAGGTCGAAACTGAAGAG  
CCAGCAGTTGTTGAAGAACCTGCAGTAGCAGAGGAACCAGCAATTGTTGAGGAACCTGCA  
GTAGCAGAGGAACCTGCAGTAGCAGAGGAACCTGCAGTAGCAGAGGAACCAGCAATTGTT  
GAGGAACCTGCAGTAGCAGAGGAACCTGCAGTTGTTGAGGAACCTGCAGTAGCAGGAAGTT  
CCCGAAACAATCGAAGAACCTGCAGTTGAAGAACCTGCGGCAGTTGCTGAGGTCACCGAG  
GCTGCAGAGGCTGCTCAGGTTGCTGTGGAATCTGCGGAAGCTGCGCTGGAGGAACTCCA  
GTTCCAGATGTGGAGCCGAGCCAGCTGCGGAGCCTATTGATGAGATCGTGCCGGCGGCG  
GGTCGTATCGGTAAGCTGCGTGGTCTCTTTCTCGGTACAGAGTGTTTTCGGTAAGTCA  
GTGTTGGGCATTTTTGTCTGCGGGTGAATTTGGATGAAGACGCATGGGAAGACATCGAAGCG  
ATGTTGATCAAGGCGGATTTGGGCGCCAAGATCACTGCGCGTGTGGTGGATGAGCTGCGT  
GACAAGATCGCAGAGCATGGTGTGGTAGTGAGGCAGAGGCGCGTGCGATGCTGCGTGCT  
TCGCTGATTGATGCTTGCCGTCTGACCTTGATCGCTCCATTAAGGCTATGCCGTATGAG  
GGTAAGCCACCGGTGGTGTGGTTGTTGGTGTGAACGGTACCGGTAAGACGACGACTACT  
GGCAAGCTTGCTCGTGTGTTGGTGTCCATGGGTGATAAGGTGATTCTTGGTGCTGCGGAT  
ACGTTCCGTGCGGCGGCTGCGGATCAGTTGGAGACGTGGGGTCGCCGTGTGGGTGCGGAG  
ACTGTTTCGTGGCGCTGAGGGCGCGGATCCTGCATCTATTGCGTTTGATGCTGTGGCTAAG  
GGTGTGAGCGTCAGGCGGATGTCGTTTTGGTTGACACTGCGGGTCGTTTGCACACGTCG  
ACTGGTTTGATGGATCAGTTGGGCAAGGTTAAGCGCGTGGTGGAGAAGAAGGCAGTGGTG  
GATGAAGTGCTGCTGGTTTTGGATGCCACGGTTGGTCAGAACGGTATGCAGCAGGCTCGT  
ATTTTCCGTGAAGTTGTGGATATTACGGGTGTGGTGTGACCAAGCTGGATGGTACTGCG  
AAGGGCGGAATCGTGTTCCAGGTGCAGGAAGAGTTGGGTGTTCTGTGAAGCTTGTGGT  
CTTGGTGAAGGTGCGGATGATTTGGCACCGTTTTGAGGTTGAGGGCTTCGTGGACGCTTTG  
CTGGGC

>RXA02098-downstream

TAGAAACCCGATAAGCGAGAACC

>RXA02101-upstream

GCCATGGAATGCTCCGTTGAACGCAACAGCCTTAAATACAATCCCCCTCCTATAAGCCAAG  
AGTTTTAGTGTCGCTGCGCAGGTACTCTACTATCTAATCC

>RXA02101

ATGAGCCGCATTTTCAGAACTTCTAAACAATCATGGTGTGATCTGTGCTGGCAAGAGGCC  
GCATATCAGGATTTCCACGAACATCCTGAGCTCTCCGGCTTCGAATCAGAGACCGCAGAT  
CGCATTCAGAAATACCTCGAGCGTTTTGATTGTGAGGTGATTCCAAATGTTGGCGGTTAC  
GGCATTCTGGCCGTGTTCCGAAATGGGTGACAGATCCTGGTGCCCTGTTGCGTTAATG  
CGCGCAGATTTTCGATGGCCTTCCCGTCAAGGAAATCACCGGAGTTCCGTTTGCTTCCACT  
CGTATGCGTCCGCATGATGGGGCAAATGTCCATGTGCATGCACGCATGCGGCCACGATGTC  
CACGTACACCGCGCTGCTTGGTGCGTGTGCCATTTTAGATGAGCGTCGCGATGCATGGGAA  
GGCACGTTTCATCGCGTTGTTCCAGCCATCGGAGGAAAACCTCCAAGGCGCTAACAAAGATG  
GTCGCCGGCGGTTTTAGTTGATCTGATCCCACGCCCTGATGTGTGCTTTGGCCAGCATGTA  
GTCCCCGGTGCTGCAGGAACCGTGATGAGCATGCCTGGCGGTGCTCTCGCTGCCTGCGAT  
TCCATTGAAATCCGCATTACAGGTCGACGCGCCATGGTTCCATGCCTCATAATTCCATC  
GATCCCCTTATGTTGCAGCGATGATTGTGCTGCGACTCCAAGGAATCGTGGGCGCGGAG  
GTTTCTCCAGAGGATTTCCGCCGTTATTTCTGTGGGCACCCCTCCAGTCGGGCAACACCAAC  
AACACCATTCAGCAAGTGCTCGTTTTGGTGTGAACTGCCGTTTCTACAACGACAAAGTC  
AAGCACAAGGTCTACCGAGCCATCGAACGTGTTGTCCGTGGTGAATGCCTTGCTTCCGGT  
ATTGAGGAAGAACCTGTCAATTGAGTACTTCGCCCACGGTGATCTCACCACCAACACCCCT  
GTTGTCTTCGATACTGTGCGCCCTGTCTTCGACGATGTTTTCGGCGAGGATTCTATTGAC  
GCTTACCGGTGGACTGCGTCGGAGGATTTCCCTCCATTCTTAAGGCATTCAACAGCCCT  
TACCTGTACTGGACGATTGGTGTACGCCGCGCGATCAGTGGACAGAAGCCGTAGAAAGA

GACCGCGTGGCATCGGATGTGCCAGCCAATCACATGGGAGATTTCTCCCTGATTATGCG  
CCGACGATGTCCGCTGCCACCCGCGCAGCCGCGCTGCTGACCTACTTGGGAAC  
AAC

>RXA02101-downstream  
TAATCATCTAGTTTTCTGCGACG

>RXA02105-upstream  
GCGGGCGTCGAAAAGCGGCGACCTGCGGATCTGTGACCCGCGCCATAAATGGGTACGATG  
GCGGTTGGAAAATTCCGTAACCTCTTTGAGGGAGAAACCC

>RXA02105  
ATGGTCGGCAGATTTCCACCTACATCGCATTCAATGGAAACACCACGGAAGCTCTGAAA  
CATTGGCAAGAGGTTTTTGGTGGTGAACCTAATCTTTAACCTACGGTCAGCTCACCTTG  
GAAGGTATGCCGTTTGATCCTCCAGCGGATGCGTTGGCGCACGGCGTCCTCACGTTGGAC  
AATGGTGGTTTTGATTTCTGGCAGTGATTCTTTTGGAGGAGAAATGCTCGTCAAAGACACC  
GCGTACTCCATGTTGTATAACGCGGAGTCAGTGGAAGATGGTCGCGCGCGG

>RXA02111-upstream  
GCTTGCGGGAACACCGCACCGCCCACTGTTTCAAGATTCCAAAGATAAATTCTGAC  
GCTCATTCCAGCCACCGTTTAGAAGAAAAGACCCCAATC

>RXA02111  
ATGACCACCTCAATCACCCCATCTGTCAACCTTGCATTGAAAAATGCCAATAGCTGCAAC  
AGTGAACCTCAAAGACGGACCTGGTTCTCGACCAGCCCGGAATGCCGGATGTCTACGGC  
CCCGGCGCGTCACAAAACGATCCGATCCCTGCGCATGCTCCGCGCCAGCAGGTTCTCCCC  
GAGGAGTACCAGCGCGCAAGTGATGACGAACTGCATCGTAGGATCCGGGAAGCGAAAGAC  
ACCCTGGGTGACAAAGTGGTTATCCTAGGACACTTCTACCAGCGCGATGAAGTTATCCAA  
CACGCAGATTTTGTGGTGACTCTTTCCAACCTTGCCCGCGCTGCCAAAACCCGACCCGAG  
GCGGAAGCGATTGTGTTCTGCGGTGTGCACTTCATGGCTGAAACCGCTGATCTGTTATCC  
ACGGATGAACAATCAGTGATCCTCCCCAACCTTGCCGCGAGGTTGCTCCATGGCAGACATG  
GCTGACCTTGATTCCGTCGAAGACTGCTGGGAGCAACTCACCTCAATTTATGGCGATGAC  
ACCGTGATCCCTGTGACCTACATGAATTCCTCTGCAGCGCTCAAAGGTTTCGTGGGTGAG  
CACGGCGGAATTGTATGCACCTCCTCAAATGCACGTTCCGTATTGGAGTGGGCGTTTGAA  
CGCGGCCAACGAGTCTGTTCTTCCCCGATCAGCACTTGGGTGAAACACCGCGAAAGCC  
ATGGGCATTGGGATCGATCAAATGCCCTGTGGAATCCCAACAAACCACTGGGTGGCAAC  
ACCGTTTCCGAGCTAGAAAACGCAAAGGTACTGCTCTGGCATGGTTTCTGCTCTGTACAC  
AAGCGCTTTACTGTGAGCAGATCAACAAAGCCCGCGCCGAGTACCCGACGTTACGCTC  
ATCGTGACCCCTGAATCCCCCATGCCAGTTGTTGACGCCGCCGACTCATCCGGATCCACT  
GACTTCATTGTGAAAGCCATTCAAGCAGCACCGGCAGGATCTACCTTTGCGATCGGCACC  
GAAATCAACTTGGTTTACGCGCTGGCAGCCAGTACCCGCGAGCACACCATCTTCTGCCTC  
GACCTGTCTATCTGCCATGCTCCACCATGTATCGCATTACCCCTGGTTACCTGGCCTGG  
GCACTTGAGGAGTTGGTGGCTGGAAACGTGATTAACCAGATTTCTGTCTCTGAATCCGTG  
GCGGCACCGGCGCGAGTCGCTTTGGAAAGGATGCTATCTGTTGTTCCAGCAGCTCCTGTT  
ACTCCTAGCTCCTCGAAGGATGCG

>RXA02111-downstream  
TAATTTATGACTACCCATATTGA

>RXA02118-upstream  
GGGCTGGTGCGGGTTGCTTTAATGGAGGTCATGCTCGCAGGCTAACAGAATTGGTGGTTT  
TAGTGCTGTTACCAGGGACATCGGCTAGAATCTGCTGAAT

>RXA02118  
ATGTCTGATCAATTAGCTCCCTGCCCTGAGTGCAGCAGTGAATATACCTACGAAAACGGC  
GGCGTTCTGGTCTGCCAATGTGTGCCACGAATGGGTGCAAGGTGAAGTAGCGGAAGAA  
ACCGCGACTGTCATCAAAGACTCTGTGGGAAATATCCTCAATGATGGCGATTCCGTATCG  
ATTGTGAAGAGCCTCAAAGTCAAGGGTGGCGGTGCCATCAAGATTGGCACCAAAGTCAGC

GGAATTCGTCTTCTTGAAGAGCCAGTTGACGGCCACGACATCGACGCTAAGGTCCCTGGA  
TTTGGTCAAATGCGACTCAAGTCCAGTGTTGTAAAGAAGGCC

>RXA02118-downstream  
TAAACCCTTTTAAGGAGCTTTAG

>RXA02120-upstream  
TTGGCCACTTGTTTGTAGTAGGCTGGCGGGCAGGTGCTTGAAATACTCTGATTAGTTCCAA  
GCAAATTAGCACAACTTCACACTTTATTTAGGAGCATGTT

>RXA02120  
ATGCTGACCTGAAGTCACTTGCCACGAAATTTGCTAGCGATCATGAATCCGGAAAGCTG  
CTGGTCCTGCCTACCGTCTGGGATACCTGGAGCGCGGGGCTCGTAGAAGAAGCAGGATTT  
AGTGGCCTGACCATTGGTAGCCACCCAGTCGCGGATGCGACAGGAAGCTCCGATGGTGAA  
AACATGAATTTTGCAGATTATATGGCGGTGGTCAAGAAGATCACCTCGGCGGTATCCATC  
CCCGTAAGCGTTGATGTGGAATCCGGTTATGGTCTCTCGCCTGCGGATTTGATCGCACAG  
ATTTTGAAGCTGGCGCAGTGGGCATCAATGTGGAAGATGTTGTGCACAGCGAGGGTAAG  
CGTGTTCGTGAGGCGCAGGAGCACGCTGATTACATCGCTGCGGCACGTCAAGCTGCCGAT  
GTGGCAGGTGTAGATGTGGTGATCAACGGTCGCACGGATGCCGTCAAACCTTGGTGCAGAC  
GTTTTTGAAGATCCGATGGTGGAGGCCATCAAGCGCATCAAGCTCATGGAACAGGCAGGC  
GCGCGTTCCGGTGACCCCGTGGGTCTGAGCACCGCCGAGCAGGTTGAGCGCCTGGTGGAC  
GCTGTGTCAGTGCCGGTCAACATCACCGCGCACCCGGTTGATGGGCACGGCGCAGGCGAT  
CTGGCCACCCTCGCAGGCCTTGGCGTGCGCCGCTGACCTTCGGTCCGCTCTGGCAAAAA  
TGGCTGGCTGCCACCTCGGCGCAGCAGCTTAAGGGCTGGGCT

>RXA02120-downstream  
TAAATTGCTTGTCGACGCCTAGT

>RXA02126-upstream  
TCCGAGGAAGACATGGCGGCACTTCAAGAAGTGACCGCCCGCGATTATGGCGAGCACAGC  
GGTTTTCTGTGTATTCCGGCAAGTAGAAAAGATTTTTATC

>RXA02126  
ATGGGACAAAAAGTAACCGCAGGTCTGACATCCTAGGAGAGTTTGCACCTAAGTCCGCT  
GAACTCAACGATGATGTCTCTTTGGCCAGGTGTGGTCGAGGGAATCAGAGCTTTCCCCA  
CGTGACCGAAGCATCGTGATCGTGACAATGTTGATGGCAAGTGGCGTGCTGGATAGTGCT  
TTTGAAAGCCACGTTTACGCGAGCCAAAGACAACGGTGTCAGTCTGAAGAAATCGCAGAG  
ATCATACCCACGTGGCCTTTTATGCAGGTTGGCCAAAGGCTTGGGCTGCGTTCCGCATC  
GCAAAGGACATTTACACCAAG

>RXA02126-downstream  
TAATAGCGAGGCAGAAAACACAT

>RXA02192  
ATTCCCAGACATTGGATTTGGTGTCTTCCAAACCCACCCGATGAAACCCGAAACTCCGTT  
AACGCTGCTCTTGAAGCCGGCTATCGCCACATCGACACCGCGGCCGCATACGGCAATGAA  
CGTGAAGTCGGTGAAGCAATCGCAGCATCCGGCATTGGCCGCGACGAGATCACCATCGAA  
ACCAAAATCTGGGTGACCGACTACGGCTTCGAGGAAACTCTCCACGCATTGACAAGGCC  
ACAGGCAAGCTTGGTGTGATACACTGGACATTTTGTCTTGCACAGGCAGTGCCAAGC  
AGCTTTGATCGCACCATCGCCGCTACAAGGCGCTAGAGAAGCTGCTTTTCGACGGCGCG  
GTGCGGGCAATCGGAGTCAGTAATTTTATGCCAGAGCACCTGGACAAACTCCTTTTGGAA  
ACCTCCATTGTCCCAGCTCTGAACCAAATCGAATGCCACCCCTACTTCCAGCAGCGTGAC  
GTGCTTGCCCGCAATGAGCAGCTTGGCATTTTGAATCAGGCG

>RXA02214-upstream  
GAACTCAATTCCCTGAGCTGTAATGAAAGGACATTGGTATGGGGTTGCCTCTGACATCGT  
TTGAGCTCTCCATCCTTTTCATTTTCGCTATTCTGGTATCC

>RXA02214

ATGAGTCCCACCGTTTTGCTGCTACACAAGCTGACTTCCCTAAGATCGTCGATGTTCTG  
GTTGAAGCATTTCGCCAACGATCCAGCATTTTTACGATGGATCCCGCAGCCGGACCCCGGT  
TCAGCAAAGCTTCGAGCACTTTTCGAAGTGCAGATTGAGAAGCAGTATGCAGTGGCGGGA  
AATATTGATGTCGCGCGTGATTCTGAGGGAGAAATCGTCGGCGTCGCGTTATGGGATCGG  
CCAGATGGTAATCACAGTGCCAAAGATCAAGCAGCGATGCTCCCCCGCTCGTCTCCATT  
TTCGGGATCAAGGCTGCACACGTGGCGTGGACGGATTTGAGTTTCGGCTCGTTTCCACCCC  
AAATTCCCCCATTGGTACCTCTACACCGTGGCAACATCTAGCTCTGCCCGTGGAACGGAT  
GTTGGCAGTGCCTTCTTAATCACGGAATCGCTCGCGCGGCTGATGAAGCTATCTATTTG  
GAGGCGACGCCGACTCGTGCGGCTCAACTATATAACCGTCTGGGATTCTGTCCTTGGGT  
TATATCCCCTCAGATGATGATGGCACTCCTGAACTGGCGATGTGGAACCGCCAGCGATG  
CCAACCTGT

>RXA02214-downstream

TAACCCTGAAGCGATTTAAGGG

>RXA02215

GCCCAAGAACTCCTGGTCAAGCTGTTGCCACATTCTGGAACGCCCTGCGCATCGGCATC  
ACAGGAGTCCCCGGTGTTGGTAAATCAACCTTCATCGAAGCCTTCGGCTTGCACCTGATT  
GAACAGGGACACAAGGTGGCAGTAGTAGCGATCGACCCGTCCTCGACCAAACTCGCGGC  
TCGATCCTTGGCGATAAAACCCGCATGTCCAAGCTTTCCAACGCAGAAAACGCCTTCATC  
AGGCCGTACCTTCTGCCGGAACACTTGGCGGTGTGGCCAAAGCAACGCGTGAAGCCATG  
GTGGTTTTTCGAAGCTGCAGGTTACGACATCATCATCGTCGAAACCGTCGGCGTCGGCCAA  
AGCGAAGTCGCCGTATCGCACATGGTGGATATCTTACCTTCTGCGCTGTCCGGCGCT  
GGCGACCAACTCCAAGGCATCAAAAAAGGTGTCTTAGAAATGGCAGAGTTGGTGGCCATC  
AACAAAGCCGACGGCCCCAACGAAAAACCAGCAAAACGAGCAGCCCGGACCTCGCTTCT  
GCACTCCGCATGGTTTCGACGCCCCGATGAACTCTGGCATCCACCAACAATCACCATGTCA  
GCTGTGCAAGGCACTGGTGTGGACACCTTTTGGCATCATGTCCAAAACACCACAAAACC  
ATGGTGGAGGCGGGGAGTTCGACAGGCGACGACGCGACCAACAAGTGGGATGGACTTGG  
TCGATGGTCCATGAAACTATCCGCATGCGTCTCGAAAACGATCCCGGTGTTCAAGTAGTG  
AGCCAAGACATGGAACGAGCCCTCCGCAAAGGTTCCACCACCCCGACGTTGGCTGCCCAA  
AACATCCTGGAGGCGTTTCGACAAAGCC

>RXA02215-downstream

TAATAAGGCACCATTGATGGT

>RXA02264-upstream

TCCCTGACATCCAGGTGAAGCAACGTTTGATGACGGCACCAAGCTCGTCACCGTGCACA  
ATCCCATCCGATAACCCCTTGATGTTTTTAGGAGTTTTGTC

>RXA02264

ATGATCCCAGGCGAGTACATCCTGTCCAGCGAATCACTCACCGGAAATGTTGGGCGCGAG  
GCCAAAACCATCGAAATCATCAACACCGGTGATAGGCCTGTGCAGATTGGTTTCGATTTT

>RXA02265-upstream

TCAAAGGAAAGCAGTATATTGTCGGTTTTTTAGAGGCTCTCCCAAATATTGCGTTGGGGG  
AGCTAAACTAATTCTGTACCTGACAGAAAGGGGCAAAA

>RXA02265

TTGCATATCACTCCTCGTGAACAAGAAAACTGATGATCGTGGTGGCGGCTGACCTTGCA  
CGTCGCCGTAAAGATCGCGGCCTAAACTTAACCAACAGAGGCGTCGCCCTCATCAG  
TATGAACTGATTGAAGGCGCCGTGACGGACGCACAGTCGCAGACCTTATGAGCTGGGGA  
AGCACCATTTTACTAGGGATGATGTCTTAGAAGGCATCCAGAGATGATCCCTGACATC  
CAGGTTGAAGCAACGTTTGATGACGGCACCAAGCTCGTCACCGTGCACAATCCCATCCGA

>RXA02265-downstream

TAACCCTTGATGTTTTTAGGAGT

>RXA02274

TACGCAGCAATCGGCGAAGAAGTAGCATTTCGGCGGTGGCAAGGTCATTTCGTGATGGCATG  
GGCCAAAATGGCACCTTGGTTTCGCGATGTAGATATTCCCGATACCGTCATCACCACCGTC  
ATCGTCCTTGACTATACGGGTGTGTACAAAGCTGACGTTGCGCTTCGAGATGGCAAAATC  
TTCCGAATCGGAAAGGCCGGAACCCGAATGTCATGGAAAACGTCGACATCGTCATCGGC  
GTTGCCACCGACATCATTGCTGGTGAAGGCAAAATCCTTACCGCAGGTGGCATCGACACG  
CACGTGCACTTCTTGGGCACAGACCAGGTCAACACTGCATTAGCATCAGGTATCACCACG  
ATGATCGGTGGAGGCACCGGCCCAAGCCAGGCGTCGATGGCTACAACCTGTCACGCCAGGT  
CAGTGGAATACCTACAACATGCTTAGTGCTTTTGAAGGCATGCCCATGAACTTTGGCATT  
TTGGGTAAAGGCCATGGTTCTTCCAAATCTCCGCTGGCTGAGCAGGTTTCGTGCGGGTGCA  
ATCGGTCTGAAAATTACAGGAGGACTGGGGTGCCACACCATCGTCGATCAACACTGCCCTA  
GAAGTAGCCGATGACATGGACATCCAGGTGGCACTCCACTCCGATACCTTGAATGAGGCC  
GGTTTTGTGGAAGACACCATTGAAGCCATTGCGGGCCGAGTCATCCATACCTTCCACACC  
GAAGGTGCTGGTGGTGGACACGCTCCTGACCTAATCCGAGTGGCTGCTCTGCCAAACGTG  
TTGCCTGCATCCACCAACCAACGCTCCCATACACCCGAAACACTGTTGAAGAGCACCTG  
GACATGGTGATGGTTGCCACACCTCAACCCAGATATTCCAGAAGACGTGGCTTTTGCG  
GATTCGCCAATTTCGTGCCGAAACGATTGCAGCCGAAGATGTGCTTACGATATGGGTATC  
TTCTCTATCACCTCTTCGGATTCCCGAGGCGATGGGCCGAGTAGGAGAGACCATCACGCGC  
ACGTGGCAGGTGCGCGACCATATGAAACGCACCCGTGGATCACTAACGGGAGATGCTCCA  
TACAACGACAACAACCGCTTGCGTCGATTTCATCGCAAAATACACCATCAACCCTGCGATT  
GCGCACGGTGTGGATTATGTTGTTTCGTTTCAGTGGAGGAAGGCAAGTTTCGCTGACCTCGTG  
CTGTGGGATCCAAAGTTCTTTGGTGTGAAACCTGATCTGGTGATCAAGGGTGGGTGATG  
GTCAATTCCCTCATGGGTGATTCCAACGGTTCCATTCCAACCTCCGAGCCCCGCACCCCTG  
CGCAATACTTGGGGTGCGTTTGGCCAGGCAGTTTCCAGAAGCTCCATTACATTCTATCC  
CAGGACGCTATCGATGCAAATGTTCTGATCTGCTGAATCTGAGGAAGCAGATCCGGGGC  
GTTTCGAGGTGTAAGGAATCTGACCAAACGAGACATGAACTCAATGCAGAAATGCCTGAT  
ATTTCGTGTCGATCCAGAGACCTACCAGGTGTTTGTCAACGGTGAGTTGATCACCAGCAAG  
CCAGCAGAGACAGTGCCAATGGCACGTCGCTACTTCTTGTTT

>RXA02274-downstream

TAATCCGCCAACAAGGAAGGAAG

>RXA02275-upstream

GTTTGTCAACGGTGAGTTGATCACCAGCAAGCCAGCAGAGACAGTGCCAATGGCACGTCG  
CTACTTCTTGTTCTAATCCGCCAACAAGGAAGGAAGATCC

>RXA02275

ATGATTATCACTGCGATCGACACCAACATCTACGATGAACCGGAGTTTGTGTAAGGACGC  
GATGTCATCGGTGTGCGCTTTGAAGATTTAGTTTTGGATAAGCGCATTCAACGGGTGCA  
CTCCCCGGAGGAGAAGAAGTGGGGTTGCGGTTAAACACGGGCATCCGATTCTGCGTGAA  
GGTGATGTGTTGAAAGCTGATGATAAGACGGTATTTGTGGTGGAGATTATCCCCACGGAT  
GTTTTAGTTATCACGCCAAGCGATATTACCAGATGGGATTTGTGGCGCACTCCCTGGGA  
AACAGGCACCTGCCAGCACAGTTTCCAAGCCAGGTGAATTGACAGAGAAGGCAGCCATG  
ATCGTGCAATACGATCACACGGTGGTCAGCTTCTTGATGAGCACGGCATCGAGTATCAG  
CGCACCGAACTTGTTCCGCCAATTCTTTTCAGGCATAGCGGGCACACACAT

>RXA02275-downstream

TGATGGATCTTGACGCTGATTTT

>RXA02276-upstream

ATCACACGGTGGTCAGCTTCTTGATGAGCACGGCATCGAGTATCAGCGCACCGAACTTG  
TTCCGCCAATTCTTTTCAGGCATAGCGGGCACACACATTG

>RXA02276

ATGGATCTTGACGCTGATTTTCTGCTGTTGCATTTATCGGATTCAGCACTTCCAACGGGA  
GCGTTTTCGCGCACTCATTTGGATTGAAACTTATATGGATGCAGAGCGAATCACCATGCA  
GAGGAGTTCCAAGACTGGCTGAAAGTCTTGCTTAAGGTGCAATTGACCAGCTCTGATGCT

TTGGCAATGAGGATGTTTTACGCCACCCCGACGGTGTCTGAGCTGAAACGGCTGGATGAG  
 CGCCTTTTTTGGCTGGAACCTCCGGCGAGAGAAATTCGGGAAGCTAATGCTCGAATGGGTACG  
 CGCATGGCAGAGATCGTGGCTGAAACCTACTCCGTGCCCTGATTGTTGAGTATCTCGAA  
 TTGATTCAACATCGAGAGCTATCAGGGCACCCTGGCTTTGGCTTTGGCTCTTGCCACCCAC  
 AGCGCGGGGATTGATGTGGATCGAGCAATCCACGCTCACCTCACGGCAACGGTGAGTTCG  
 CTGATCCAAAATGCGGTTTCGTGGCATCCCACTGGGGCAAATGGCAGGTCAGCGGGTGATG  
 TTCGCCATGCGTGAGCATATCGGTGCGGCCGTGAAACGTAGCGCGAACTTGGATGAGATT  
 GATTTCTGTTTCGGGTGATCCAGGCTTGGATATTTACAAATGGTTCATGAAACCCAACGC  
 GCACGACTATTTATGAGT

>RXA02276-downstream  
 TAAGAAGGAGAAAAGAAACATGG

>RXA02277-upstream  
 ATTGATTTCTGTTTCGGGTGATCCAGGCTTGGATATTTACAAATGGTTCATGAAACCCAA  
 CGCGCACGACTATTTATGAGTTAAGAAGGAGAAAAGAAAC

>RXA02277  
 ATGGGTCCAATCAGAAATCGGCGTAGGCGGGCCGGTTCGGCGCCGGAAAAACGCAGCTGGTA  
 GAGCGGATTACGCGAGCGCTTATCGACGAAGTCAGCATGGCTGCAATCACTAACGATATC  
 TACACCATTGAAGACGCCAAGATTCTTGCCGCCAATGGAGTGCTGCCAGAAGAACGCATT  
 GTTGGCATTGAAACTGGAGGATGCCCACACACTGCGATTTCGTGAAGACACCTCCATGAAT  
 GATGCAGCGATCAAAGACCTTGTGGAACGCTTCCAGATCTGGAACCTCATCTTTGTGGAA  
 TCTGGTGGAGATAATCTCTCTGCAACGTTCTCGCCAGAGCTGGTGGATTTTCCATCTAC  
 ATCATCGATGTTGCCCCAAGGTGAGAAGATCCCGAGGAAAGCTGGCCAAGGCATGATTAAG  
 TCGGATTTGTTTATCATTAATAAACTGACCTTGCCCCATATGTTGGTGCCAACCTAGAT  
 GTCATGGTGGAAAGATGCCAAAGCATTCCGCAAGAACAACCATTCTGCCTGACTAATCTG  
 CGCACCGATGATGGTTTGGATAAGGTCTTGAATGGATCCGCCATGAGGTGATGATGCAG  
 GACTTGCAAGGAAGCC

>RXA02277-downstream  
 TAAATGACACAAACCCAACCACT

>RXA02278-upstream  
 ACCATTCTGCCTGACTAATCTGCGCACCGATGATGGTTTGGATAAGGTCTTGAATGGAT  
 CCGCCATGAGGTGATGATGCAGGACTTGCAGGAAGCCTAA

>RXA02278  
 ATGACACAAACCCAACCACTGGGAACCTGCGACTGACCATCGATGATCAAGGACCCCAA  
 GGTCAAAGCCGTGCGGTGGAGCAATTTACCAGGGTGCGCTTCGAGTCATCCGGCCACAC  
 TACTTGGAGATTCCGGACAGGTTTGCTACACCATCATTGCCATTGGTGGCGGATACCTG  
 GGCGGCGATGTGTATGAGCAGCAATTCACGATCAAAGACAACGCAAAAGCTTTGATCACC  
 ACGCAATCGGCCACCAAGATTTATCGCACACCGCAAGGACCAGCCACGCAGCACACCGAA  
 ATCAACGTGCGTGAAAATGCTGTGCTGGAATACTTGGCGGATCAAACCATCGCGTACCGG  
 GAGGCCACCTATCATCAATTCACCAAGGTGGCGCTGCACCCGAGCGCAACGTTTGTGATG  
 AGCGAACAATACACCCAGGCTGGCACCCGACGGCAAACACTTTGCTTACGATGAAATG  
 CGTCTACACACCGAAATCACGGACTCCACCACAGGGCGACTCGTGCTCTTGGATAATTTA  
 CTGCTCCGGCCGGACTCCCGAGAGGGAAGTTTGGGTGGACGGAACAGTACACACATTCA  
 GGGCAGATGATTGTGATGGGGGAAGGCGTCGATAAGCAGCTTGTGCTGAGCTGAATGAG  
 CAACCTTGCCGCGCACCCCTGATGTGTACGGCGCCGTCAATTTCTTAAGCGCGCCGGGCAG  
 TTACTGCGCGGATTTATTGCGCGCACGCTGAGCAACCGCACTGAGGAGTTGATTAACCTG  
 CACGAACACATTGCGTCTGTTGCGCGGGCGGTGGCGCGGGCAGGAACCGGTGAATTTG  
 CGGAAGTAC

>RXA02278-downstream  
 TAGACGGCGTCGAGAAATCGAAG

>RXA02316-upstream

TGCGCACCTACGGCGCCGAATTCCCGCTGGTCCTGCTTAAAGATGGACAGGCACTGCTTA  
TCGACGACCACGGCGTCCACCTAATTTAGGATGGTTC

>RXA02316

ATGAGCACCCCACTGTTGATGAGATTCTAGAGCGCGCCACGTGGTGTGCTGCGGATG  
CGTGTGAAGTTTCGTGGCGTCACCACAGGGAGGCTTTGCTGATTGAAGGCCCTGCTGGT  
TGGGGAGAGTTTCGCGCCCTTCCTTGAGTATGACCCGCAAGAATCGGCCAGTTGGCTAAAG  
TCCGGCATTGAAGCAGCGTGGGAGGGTTTTCCGGCGCCGTTGCGTGATCGCGTGGAAGTC  
AATGCCACCATCCCAGCTGTTCCGGCCGATCAAGTGGCAGAAGTTTTGGACCGTTTCCCA  
GGCTGTGCGACCATCAAAGTAAAGGTGCGGGAACCAGGCCAGACCTTGGCTGATGACATC  
GCGCGAGTTGCCGCTGCCCGTGAGGCACGCCCCGGCGCGATCATCCGTGTTGATGCCAAT  
TGTGGGTGGAGTGTGGAGCAGGCGGTGGAGGCGGCTCAGGCGTTGGCGCCGTTGGATTAT  
TTAGAGCAGCCGTGTGCCACCGTGGAGGAACTGGCGGAAGTGCGCATGACGGTGCAGCGG  
CGCGGACTTTTTGTGCGCGTTGCAGCGGATGAATCGATCAGAAAATCTGATGATCCTTAT  
CGGGTGGCGGATCTGCGTGCTGCGGATGTGGCTGTGGTGAAGGTTGCTCCTTTGGGTGGT  
GTGAAAAGGGTACTTGAGGTGGTGCAACATTTGCGGGCGCGCACGATGGACATCACTGTA  
GCAAGTGCCTTGGACACGGTTGTGGGATGAATGCTGGGTGGCTGCGGTGGCGGCGTTG  
CCGAAGTTGGATGATGACGATCTCATTGATGTGCCACCAGCGGCGGCGGGTCTTGCGACT  
TCGCAGTTGTTTCTGGAGGATGTCGCGACCCCGCACGAATCACTGATGGGTTCATGGAA  
ACGCGTGTAAATTGCCCCGAAATGGATCGTTTGGAAACGCTTGCTGCCAGCAAAGATAGG  
CGTGATTGGTGGTTTGGAGCGGTGCGTGAATCGTATCCGTACCTGGAGACGATC

>RXA02316-downstream

TAGACTGTTGTGCATGTCCAGCA

>RXA02317-upstream

GAATTTTCCGGTGTTAAAATGTGCGGTGAGCTTGGCGTTGGCGGAGGACCAGTGTGGGGA  
GACGTCGAAAAGCGAATTCATGGCCCCATCTTGCCTTAAA

>RXA02317

ATGGCGCACATGCGCTTACTGCTGACCTCCTTTGGCCATGATCATATTCCGGGATTTTGTA  
CGCGGTACCGTGGCGTATATCCCTGATGCGACCAGGCTTTTTGCTGATAGTCCCGAGGCT  
GCTCCTTTTATGGAGACGGAGCGAAATATGCTGCGCGAGCACGGCTTGAGCATTCTGTAG  
CTGCCGATTTCCACGTCGACTCCGGAGGAAGTGGATCGGGTGCTTGGTGAGGTTGATGGG  
GTGTATGTGGCGGGCGGTGAGACTTTTGATCTGATGTGGCTGCTGCGTTCACAGGCAAT  
GATGAGGTGTTGATTAAGCATGTTTCGCGCTGGTCTACCGTATATTGGAACGAGCGCCGGC  
GCGGTAATTGCAGGTCCTTCGATTGAACCGATCAGCTTTTTGGATAGCCCCGATGTCGCG  
CCGAATTTAAGCGACTATTCAGGTCTAGGCCTGTGCGAGCATGTCGTGGTGCCCCATGCT  
GGTGGCACGATCCCCGAATTTCCCATCGATGTGTTTGCGGAAACCGTGCGCACCTACGGC  
GCCGAATTTCCCGTGGTTCCTGCTTAAAGATGGACAGGCACTGCTTATCGACGACCACGGC  
GTCCACCTAATT

>RXA02317-downstream

TAGGATGGTTCCCCATGAGCACC

>RXA02334

GGAGTTCTCCCGGATTGGATGAGCACGGCAACCCAACCTCAAACACCGGCGTGCTTCGT  
GGTGAACACATCCCAGGCGCGATCAACCTGGATTGGTCGGACGCTGTTCTTCCAACGGA  
AACTTCCGCACCCGTGCAGAGTTGGACAAGCTCTACGCCGATCTCAACCCAGCTGACGAT  
ACCGTTGTCTACTGCCAGGTTGGCGACCGCGGCCACCTGGTTTCGTGCTGAAGTAT  
CTGCTCGGTTTCAACAACGTCCGAAACTATGACGGATCGTGGGCAGAATGGGGCAATATG  
GTTTCGCATGCCGATCGAAACTGGCGAAAACACCAAAAATAACGTTTCGGTGTCA

>RXA02334-downstream

TAGAATAGGCGTATCCCCTTTTT

>RXA02351-upstream

TGACACTTTACAGACTGGTTTTCAACTAATGACACCGAAAGAAATACACCTCAACCTTTT



TGCTTTTCGGTGCCGGGCACACGCGGCGGCGTGCGGAGCG

>RXA02351

GTGGAGGGAAGCGTCGAAAAGCTGGGTTTTAATTTCTGGTGGGAGGAACTCGCGCGCACCGCTGAGCGGGGCAAGCTGGATGCGGTCTTTTTGGCCGATGGGCAGGCGATTAATCCGGTGGTCTGGAGAAATGGGCCGGGCTGGTTTTTTGGAGCCGGTGACCGCGTTGACTGCGATGGCGCGGGCGACGAACAATATTGGGTTGATCAGCACAAATTTCCAGTACGTTTTTGGCAGCCGTTTTCATGCGGCGCGGATGATCGCCAGCTTGGATCATATTTCCGGTGGGCGTGCTGGAATCAATGTGGTGACATCGATGACCGATGCGGAGGCGCGTAACCACGGGATGGATGCGTTGCCGGGTACGATGTTTCGCTATGCGCGCGCTGCGGAATTTATTGAAACCATCACTGCGCTGTGGGATCTTTGGCCTGCGGAAAGTTTTGGTGATGGATCGTGCTGGAAAATTTGCGGACTCCTCGCTCATTAATCTATCGATCATGATGGTGAGTTCTTCCAAGTCGCTGGTCCGCTGAATATCCCCAGTCCTCCGCAGGGTCGACCCGTACTTTTTTTCAGGCTGGATCCTCACCGCAAGGACGGGAAATCGCTGCGAAATACGCCGAGGCAATTTACTCTGTGGCGTGCGGATTTGGAGCAAGCGCAAGATTATCGCTCTGATATTCATGCTCGTGCCACTGCCAGGGTCGCGAGCCCATGCCGGTGCTTCTGGTTTTGGTGACTTTTTGTGGCACGACCGTGGAAGAAGCGCGTGCAAAACGACGAGCTCTTAATGCGTTGCTGCCGGTCAAAGACTCACTAAATCAGTTGAGTTTCTTTGTGGGTCAAGATTGCTCGACGTGGGATTTGGATGCACCTCCCCACCACTGCCACCGCTAGAAGAGTTTTCCGGTCCTAAAGGCAGGTACGAAACGGTCTGCGG

>RXA02410-upstream

TATGAGACTGACCATCCTTGGAAGCTCTGGTAGCGTGCCCGCTCCAGGTAACCCCGCATCCGATATCTGTAACTTCTCCGGACGCCCTGCCGTGATT

>RXA02410

ATGGACATGGGCCCAGGTGTCCTTGACAGCAGTTCAAGAAATTCAGATCCTGCTGATGCGCATGTTATTTTCTCCCATTTGCACACCGATCACTGCGCTGATTTTGCGTCCTTGATGGTGTGGCGCAGGTTCCACCCAACGCTGGCCGCCAAGAGCCGCAATCTTTTGTGTTGGACCTGAAGATACCCCAACAGGCTTGCTCGTTTGAGCTCCGATGAGCCTGATGGCGTTGACGATATGTCAGATACTTTTGCTTTCGACGCCTGGGAAGAGCGCAAGCCAGAGCTCATTGATAATTTACGGTCACGCCGTTCCGCGTTGTGCACCCCATTTGAGACCTACGCGCTTCGCGTAGAGGAGCACCGCACCGGCGCCTCAATTACGTATTTCCGGTGACAGCGCGTACACCGAAGCGCTTATCAGCGCCGCCCAACGTTGACATTTTCTTGTGCGAGGCAACTTGGGGCACCTCTTGCGATGACAAAGCACCAAGGAATGCATATGTGTGGCCAAGACGCCGAAGAATTGCGGCAGCAGCTGGCGTAAAGAACTGATTATCACTCATGTTCCACCATGGATTGATGCAGAGGCCACAGTGGCAGCAGCTGCGGAACACTTTGATGGTCTATCGAATTGGCACGATCAGGAATGGTTATCAGTTT

>RXA02410-downstream

TAGTCCGTTTGTACTAATAAGGT

>RXA02411-upstream

GCAGCGAATCGTCTGGTTTTCTTGATCGGGTGAATCAGCCATTGCCATATTGTGACACATCTTGGACGGATAAAAAGGGAAGCAACGCGAGGTGGCTTATG

>RXA02411

ATGGCAACCGTGACTGATTTCAAGTGGATCTATGATTGAACGCCCCGTGCCAGGTGCTGATGCGCCGATTGGAATTTTTGATTCTGGAGTTGGCGGATTAACCGTAGCTCGCACAAATCATCGATCAATTGCCACATGAATCAGTTATTTATATCGGTGATACTGCCAATGGCCCTTATGGTCCGTTGCCTATCGCTAAGGTCCGTGAGCACGCCATCCGCATTCGGATGAGTTGGTGGAACGCGGATGCAAGATGATTGTCAATTGCCTGCAACACTGCGTCCGCTGCGTTTCTCCGAGATGCCCGTGAACGATACAGTGTGCCAGTCGTGGAAGTTATTCTTCCCGCAGTAAGGCGTGCGGTGGCATCCACCCGCAATGGCAAAGTGGGCGTGATCGGCACAGTGGGAACCATTAACCTCCGGTGCCTACCAGGATCTTTTCTCTGCAAGCCCCCTCCATTGTGGTCAACGAGTGGCATGCCACGGTTTGTGGATTTCTGTGGAACGCGGAATTACCAGCGGCAGGCAGATCCTCAACATTGCGCAGGATTATTTAGAGCCTTTGCAAGCAGAAGGGGTGGACACCCCTCGTGCTTGGATGCCACCACTATCCACTGCTTTCCGGTGTCAATTCAGTTGGCAATGGGGGACCACGTAAGTTTGTCTCTAGCGCGGAAGAACTGCGAAAGACGTGCTGAGAATTTTGGCCAGCAAGATCTTTAGCCGATCCGGACATGCATCCTGAGCCAAGTTATAGCTTTGAATCAACAGGCGATCCG

GAAATCTTTGCGCAATTAAGCCGCCGATTCCCTTGGACCAATTGTTTCCCAAGTGAGACAA  
AACGAGGGA

>RXA02411-downstream  
TAACCCAGGTGTGTGTTCTACC

>RXA02448-upstream  
AGCATTCACCGGCCAGATCTTCAAGAAGGCTTAAACCCCTCCGATCTCTTTGGCTAGCA  
CCTAACAAACCACACACCTTTTAGAAAGTGATTCTCGCT

>RXA02448  
GTGAACAACCTCACTCGCATTCAACCACGACACCCTCCACAGAAAGTCATGTTTGGATAT  
GGCAAGTCCAGTGCATTCTTAAAGCAGGAAGTTGAACGCCGCGGCTCAGCCAAGGTCATG  
GTCATTGCGGGTGAACGAGAAATGTCGATCGCCATAAGGTGGCCTCAGAAATTGAGGTG  
GCGATCTGGCAGCAGAAAGTTGTCATGCACGTGCCCATCGAAGTAGCCGAACGTGCGCGT  
GCAGTGGCAACCGACAATGAGATTGATCTGCTGGTGTGTGTTGGCGGCGGATCCACCATA  
GGTTTGGCCAAAGCAATTGCCATGACCACTGCCCTGCCCATCGTCGCGATCCCCACCACC  
TACGCAGGATCGGAAGCAACCAACGTGTGGGGTCTGACGGAAGCAGCGCGCAAAACAACC  
GGTGTGATCTGAAGGTGCTCCCCGAAACAGTCATTTACGATTCCGAACCTACCATGTGCG  
CTTCCAGTGGAGATGTCCGTGGCATCCGGACTCAACGGCCTGGCGCACTGCATTGATTCT  
TTGTGGGGACCCAACGCCGATCCCATCAACGCAGTGCTTGCAGCCGAAGGAATCCGCGCA  
CTCAACCAGGGACTGCCGAAAATTGTTGCGAACCCGCACAGCATCGAAGGACGCGACGAA  
GCCCTCTACGGCGCCTACCTCGCAGCAGTATCCTTCGCCTCCGCAGGCTCCGGACTACAC  
CACAAAATCTGCCACACCTTGGGAGGCACCTTCAACCTCCCCACGCCCAAACCCACGCA  
ACCGTGCTGCCGTATGTTTTGGCATTCAACGCAGGCGACGCACCAGAAGCTGAACGCCGC  
GCAGCCGCAGCCTTTGGAAGTACACCGCACTAGAAGGCCTGCAACGCCTCCGCTTGTC  
GTCAACGCACCGAAACGACTTTCCGACTACGGCTTCGAGGCTTCAGGAATTGCTGAGGCA  
GTGGACGTCACGTTGGAGAAAGTTCCCGCCAACAATCCTCGCCAGTGACCCGGGAAAAAC  
CTCAGCAGATTGCTCGAAGCAGCACTCAACGGTGAGGATCCGGCAGTTCTTAGCGCAGTA  
CTCAGTAAC

>RXA02448-downstream  
TAACCCGGCGATTTTTCAAGGAG

>RXA02449-upstream  
ACCTCAGCAGATTGCTCGAAGCAGCACTCAACGGTGAGGATCCGGCAGTTCTTAGCGCAG  
TACTCAGTAACCTAACCCGGCGATTTTTCAAGGAGAAAATC

>RXA02449  
ATGACAACCACCGCAGACCACAACATCAGCGCGCAGCAAAAGGCTGTTGAAGAAAAT  
CTGGTGAACCGTGTCTCCAATCTTTTGATGCGTGTGAAAACCCGCGCCTCAAGCAGCTG  
ATGGAATCGCTGGTTGTGCATCTGCACGATTTATCCGGGATGTGCGCCTCACCGAGGAT  
GAGTGGAAATTACGCCATTGATTTCTCAGCGGTTGGCCACATTACTGATGACAAGCGC  
CAAGAGTTTGTGTTGCTTTCCGATACCTTGGGCGCCTCGATGCAGACCATCGCGGTGAAC  
AACGAAGCGTATGAAAACCTCAACGGAAGCTACAGTCTTTGGTCCATTCTTCTCGATGAC  
GCTCCTGAGGTTGAGCTGGGTGGAGATATCGCCGGCGGCGCCAGGGGCAGGCAGCGTGG  
ATTGAAGGAACCGTCACCGACACTGAAGGCAATCCCGTTCCGAATGCTCGTATCGAGGTG  
TGGGAGTGCATGAAGATGGACTCTACGATGTCCAATATGCCGATGAGCGCATGGCGGGT  
CGCGCGTATATGCACACCGACGCCAATGGCGATTACCGCTTCTGGGGTCTGACTCCGGTT  
CCTTATCCAATCCCCACGATGGCCCCGTGGGCAACATGCTCAAGGCGGTTGGTCTGTTCCG  
CCGGTGCCTGCGCCACCTTCACTTCATGGTGACCGCTCCTGAATTGCGCACCTTGGTC  
ACTCACATTTTCGTTGAGGGTGATCCGCAGCTAGAAATCGGCGATTCCGTCTTCGGGGTC  
AAGGACTCGTTGATCAAGAAGTTTGAGGAGCAGGCGCCAGGCACTCTACCCAGATGGT  
CGGGATCTCGGCGATCAGACGTGGGCGCGCACGCGCTTCGACATCGTGCTCGCGCCGGGC  
GCG

>RXA02449-downstream  
TAGGATTTGCTTTTCGACGCAA

>RXA02470-upstream

CTAATTCCAAGCCGAGCTGAAAAAGTCTGGAAGTTTTGCCCAATAAGGGCGTTAAAGTGG  
GTGAAAGCGAATTTAGAAATAAAGAATTAAGGGGAGAGAC

>RXA02470

ATGTTTCGAGAGGTTTACCGATCGTGCACGCCGCGTGATTGTGCTCGCGCAGGAAGAGGCG  
CGCATGCTCAACCACAATTACATCGGCACGGAGCACATTCTCCTCGGCCTCATTACAGAG  
GGCGAGGGCGTTGCAGCCAAGGCTTTGGAATCCATGGGAATTTCCCTGGACGCCGTCCGC  
CAGGAAGTCGAAGAGATTATCGGCCAGGGCTCCCAGCCCACCACCGGCCACATTCTTTT  
ACTCCACGTGCCAAGAAGGTCTTGAGCTCAGCCTCCGCGAAGGCCTACAAATGGGACAC  
AAGTACATCGGTACTGAGTTCTTGCTTCTCGGTTTGATCCGTGAGGGCGAGGGCGTTGCT  
GCCCAGGTCTGGTCAAGCTTGGTGCTGATCTGCCACGCGTGCGTCAGCAAGTTATTTCAG  
CTTCTCTCCGGCTACGAAGGTGGCCAGGGCGGATCCCCAGAGGGCGGCCAGGGCGCCCCCT  
ACTGGCGGTGACGCTGTTGGTGACGAGCTGCTCCTGGCGGTGCTCCATCTTCGGGCAGC  
CCAGGCGAGCGTTCTACCTCTTTGGTCTTGACCAGTTCGGCCGCAACCTCACCCAGGCT  
GCAAAGGACGGCAAGCTGGATCCAGTTGTTGGTTCGCGATAAGGAAATCGAGCGCATCATG  
CAGGTGCTCTCCCGTTCGTACCAAGAACAACCCAGTTCTTATTGGTGAGCCAGGTGTTGGT  
AAGACCGCAGTTGTTGAAGGTCTTGCACTAGACATTGTTAACGGCAAGGTTCCAGAGACC  
CTCAAGGACAAGCAGGTTTACTCCCTTGACTTAGGTTCCCTGGTTGCAGGTTCCCGTTAC  
CGCGGTGACTTTCGAAGAGCGACTGAAGAAGGTCTCAAGGAGATTAACCAGCGCGGCGAC  
ATCATCTGTTTATCGATGAGATCCACACCCCTCGTGGGTGCAGGTGCAGCACGAAGGCGC  
AATCGACGCTGCCTCCCTGCT

>RXA02470-downstream

TAAGCCAAAGCTTGCCCGCGGTG

>RXA02471-upstream

GGTGACTTCGAAGAGCGACTGAAGAAGGTCTCAAGGAGATTAACCAGCGCGGCGACATC  
ATCCTGTTTATCGATGAGATCCACACCCCTCGTGGGTGCAG

>RXA02471

GTGCAGCACGAAGGCGCAATCGACGCTGCCTCCCTGCTTAAGCCAAAGCTTGCCCGCGGT  
GAACTGCAGACCATTGGTGCAACCACCCCTGGATGAGTACCGTAAGCACATTGAAAAGGAC  
GCAGCTCTTGAGCGTCGTTTCCAGCCAGTGCAGGTTCCAGAGCCTTCGGTTGATCTCACC  
GTTGAGATCTTGAAGGGTCTGCGCGACCGCTACGAAGCTCACCACCGCGTATCCATCACC  
GATGGTGCTCTTACTGCAGCAGCTCAGCTTGCTGATCGCTACATCAACGACCGCTTCTTG  
CCAGATAAGGCCGTTGACCTCATCGATGAGGCTGGCGCCCGCATGCGCATCAAGCGCATG  
ACCGCACCTTCTCCTCCCTCCGCGAGGTTGATGAGCGTATCGCTGATGTTTCGCGGTGAGAAG  
GAAGCAGCGATCGATGCTCAGGACTTTGAGAAGGCAGCAGGTCTTCGCGATAAGGAGCGC  
AAGCTCGCGAAGAGCGTTTCAGAGAAGGAAAAGCAGTGGCGCTCCGGCGACCTCGAGGAC  
ATCGCTGAGGTTGGCGAAGAGCAGATCGCAGAAGTACTGGCCAAGTGGACTGGTATTCTCT  
GTCTTCAAGCTCACCAGCTGAATCTTCACGCCTGCTCAACATGGAAGAAGAGTTGCAC  
AAGCGCATCATCGGACAGGATGAAGCTGTCAAGGCTGTCTCCCGTGCGATCCGTGCTACC  
CGTGAGGTCTGAAGGATCCTAAGCGTCTTCCGGCTCCTTCATCTTCGCTGGTCCATCC  
GGCGTTGGTAAGACCGAGCTGTCCAAGGCTCTCGCAGGATTCTCTTCGGTGACGATGAT  
TCCCTCATCCAAATCGACATGGGTGAGTTCCACGACCGCTTCACCGCGTCCCGACTTTTC  
GGTGCCCTCCGGGATACGTTGGCTACGAAGAAGGTGGCCAGCTGACCGAGAAGGTTTCGC  
CGTAAGCCATTCTCCGTTGTGCTTTTCGACGAAATCGAGAAGGCCCAAGGAGATCTAC  
AACACCTTGCTGCAGGTGTTGGAAGATGGTGCCTTACCGATGGTCAGGGACGCATCGTG  
GACTTCAAGAACACCGTCTGATCTTCACCTCCAACCTGGGCACCGCTGACATCTCCAAG  
GCTGTTGGCCTGGGCTTCTCCGGATCCTCCGAGACTGACAGCGATGCTCAGTACGACCGC  
ATGAAGAACAAGGTCCACGACGAGCTGAAGAAGCACTTCGCCCCTGAGTTCCTGAACCGT  
ATTGATGAGATCGTGGTCTTCCACCAGCTCACCAGGATCAGATCGTTTTCAGATGGTCGAC  
CTTCTTATCGGTTCGCGTTTCCAACGCCTGGGCTGAGAAGGACATGAGCATCGAACTGACT  
GAGAAGGCCAAGGACCTCCTGGCTAACCGAGGCTTCGATCCAGTTCTGGGTGCACGACCA  
TTGCGTTCGACCATCCAGCGCGAAATTGAAGACCAGATGTCCGAGAAGATCCTCTTCGGT  
GAAATCGGCGCAGGCGAGATCGTCACCGTTGACGTCGAAGGCTGGGACGGCGAGTCCAAG  
GACACCGACCGTGCGAAGTTCACCTTCACACCACGTCCAAGCCAATGCCAGAAGGTAAG  
TTCTCTGAGATCTCTGTGAGGCTGCGGAAGCAATTCAAGATGTAGATTCTGCAGCTGAC

GGCGATGTCCAGAAACCGATTCACTTTCCGACATTGACCTTGAAACCTTGAAAAGTTT  
GAGGAAGATGTAGAAAACGGCACCGACATTGATCAGGTGTCCGGTGACTACTACGGCACC  
GATGATCAGGGAGGCACTGCTCCAAGCAAGGAG

>RXA02471-downstream  
TAGCAACCTTTTGAAAAGGGCC

>RXA02477-upstream  
CGAGCAGGGCTGTTTGAAAAGCTGTAAATGACATGACCTAAATGATTGTACTGACTGGCA  
CTTTAGGTCATATGTCACACCGAGTGGAATAATAAAGCTT

>RXA02477  
ATGCCTTTGCGTAATGTTGATAGAACTCCGCCCCGAGTATGGGAAGCATTGCTTGCCGGA  
AACGAAAGATTTCATCAGTTTCAACGAAGATCGACCAAACCAGGACGCCCCGCGCAGAAGA  
GAACTTCGCAATGGACAAACGCCTGCAGCTGTTGTTATTTCTGTTTCAGATTCTCGAGTG  
CCAGTTGAGATTATTTTTGACGTCCGTCTCGGTGACCTCTTTGTTGTCCGTACTGCCGGA  
GAAATCCTCGACCAAGCAGTGCTTGCGTCCATCGAATACGCCACTGAATCCATCGGCGTT  
CCATTGGTTATCGTCATGGGCCACGAATCCTGTGGTGCAGTTGCAGCAACTGCAGCAGCA  
CTTGAAGGCGGTGCACTTCCCGGAGGCTACCAACGAGTTTTGGTTGAAAAGGTTGCACCA  
TCCATTCTAGAAGCCAAGGCAGAGGGCCTGAGCTCCATCAAGGAATTCGAGGAACACCAC  
GTTGTGGCAACGGTAAACCAACTGTTGTCCCGTTCTCCAGAGATTTCATCAGAAGGTCGAA  
ACCGGTGAGTTGGGAATCATTGGTTTGCGCTACCGACTCTCTGACGGTCGTACTGAACCT  
GTAATTAGCAAGAACGTGGGT

>RXA02477-downstream  
TAGTTTTCGGTCTGAGATTGCCT

>RXA02497-upstream  
TCGATGCCGCCGCTGGCGAAGACTCGGGGAAACCTAAAAATACCGAAGAAGAATTTGACC  
GATTCACACTTTGCCACCCTAGACCGTCTAACCTTTAGGT

>RXA02497  
GTGAGATTAGGTGTATTAGATGTGGGCAGCAATACTGTCCACCTAGTTGCAGTAGACGCG  
CGTCCCGGTGGACACCCCAACCCGATGAGCAATTGGCGTACCCACTGCGCCTTGTTGAG  
CTTCTTGATGACTCCGGGGCGATCTCCGAAAAGGGCATCAACAACTCACCTCAGCAGTC  
GGGGAAGCAGCAGACCTAGCGAAAACGCTCGGCTGCGCTGAACTGATGCCATTTGCTACA  
TCGGCAGTCCGCTCCGCCACCAACAGCGAGGCAGTGCTCGACCACGTGGAGAAGGAAACC  
GGCGTCCGCCTGTCCATCCTTTCCGGTGAAGACGAAGCACGCCAACTTTCTCTCGCAGTT  
CGAGTTGGTATGGATGGTCCGCAGGGCGCATAACTAACCTCGACATCGGTGGCGGCTCC  
CTGGAACTATCCTCCGGAACCGACGAATCCCCAGACCTCGCGTTCTCACTGGATCTGGGT  
GCGGGCCGCTTGACCCACAACCTGGTTTCGACACCGATCCACCGGCACGTAAGAAAAATCAAC  
CTCCTGCGCGATTATATCGATGCGGAACCTGCAGAACCCGCCCGCCAGATGCGCACCCCTA  
GGGCCCCGCGCCTGGCAGTGGAACATCCAAAACCTTTCCGCACCCTGGCACGACTGACT  
GGTGCTGCGCCCTCATCCGCAGGACCACACGTACCCGAACCCTCACC GCGCCGGGTCTG  
CGCCAGCTGATCGCATTTATCTCACGAATGACTGCGGCGGACCGCGCTGAGCTGGAAGGT  
ATCAGCTCGGATCGGTACATCAGATCGTGGCAGGTGCGCTAGTTGCGGAAGCTGCGATG  
CGTGCGTTGGATATTGACAAGGTAGAAATTTGTCCGTGGGCACTTCGTGAAGGTGTGATC  
CTCACCAGGATCGACAAAGGACTCGAG

>RXA02497-downstream  
TAACATTTACCCGGAAGGAGTT

>RXA02513-upstream  
GTCATGTAGGATAAGAAAATCCCGCACACAACCCGTCCTGGTGGGGTAAGTGAGGGAGGC  
ATGTCTATGCCCCAATTAGACATCTGACATC

>RXA02513  
ATGCTTCCAATCTGGATGGGTCTTCCATTCAAGAAAGCAGGGGCTTTGTCTCGGCGTAAA

GCAGTATTCTCAGCGCTTGGTGCAGACGCACTCATGGGCGCAGCACTACCCACCATCCCA  
 ACGGCCCCAAGCTCAAACACCCACGGGCTACGGATTTCGATGCAACAGCAAGCATCAGCGAA  
 GAACAGAGTTTTCAACACAACAACCTCGCTGACGGCGGAACTCTCGGATTTGATTGCTAC  
 CGCATCCCATCGCTTGGCGTTCGACCCAAACGGCAACGTCCTCGCATCGTGGGATGGTTCGC  
 CCAAACAACCTGTTTCAGATGCTCCACAACCCAACTCCATCGTGGGCAAGGTATCGACCGAC  
 AACGGAGCAACCTGGGGCGAACAGCAGCAGCATTTCCGAGGTATCACCGCCGAACCCAAA  
 ACTGGCTATTCCGATCCCAGCATCGTTGTGGACTGGGAGAGGGGCGATGTCTTTAACTTC  
 CACGTGAAGTCATTTCGATGCAGGATACTTCACCTCCCAACCAGGCACGGACCCGGATGAT  
 CGCAACGTTGCCCATGTTGCCTACGCCAAATCATCAGATAACGGCTCAACCTGGGTTGCA  
 GACACCGTCATTACTGATCAAGTGGTTGCTCATGACACCTGGGACAGCCGATTTGCCACA  
 TCCGGAAACGGCATCCAACCTGCAATACGGCGCGTACAAGGGACGATTGGTCCAGCCATCG  
 GTAACCTCGCATG

>RXA02526-upstream

AGGAAATGACACTCAACTAGAAATCTTTTCTTCAGATGCCACAATCGAAAGCTGGTTGGC  
 TGCGGAGAGAGCACTCTCAACTGCTCAAGCCCGCCATGGT

>RXA02526

GTGATCACTGAAGACGATGCTGCACAGATCAACCAGGCGGCAGTCCTTTCCAACATTGAC  
 CGCGAGAAGCTGTGGGAAGATGCCAAAAATGTCGGCTACCCCATCCTTGGCTTGGTAAGA  
 CAAATCGCCAGTCACCTTCCAGAAGGCCCCAACGGGCGAGTCCACTACGGCGCCACGACC  
 CAAGTCATCATGGACACTGGACTGGTGTGCAAATGACTGCCTCTTTGAACGCCCTTGAT  
 AAACAGATCGTGCCTCTGGGGAATGCACTGGCAGCACGGGCTGAAGAGCACAAAGACACC  
 GTGATGCCGGGACGCACCCATGCTCAGCAGGCAATTCCCACTACATTTGGAGCAACCCTC  
 GCTACCTTTTTGGATCAAATCCGCAGGCAGAGGGAACGACTTGAGGAAGCACTCGAGCGC  
 GTGCGAGTCATTTTCGCTGTTTGGTGTGGTGGAAACAACGCAGCACAAAGGCGAACAAGCG  
 GCAACGGTTTCGTGCAGAGATGGCCCGCCTGTTGGATCTGAAGGACCCGGTGGTGTGATGG  
 CATGTGGAACCGCATGTGCTTGGGGACTTCGGATGGGTGTGCTCAACGCTGTGTGGATCG  
 ATGGCAAATTTGGCCGAAACATCGTGGATCTTTCCCGAACTGAAATCGGAGAAGTTTTT  
 GAGCCTTACAACCTCCCATCGGGGTGCATCTTCCATGATGCCTCAGAAAGTCAACCCGATT  
 TCTTCCGAGCTCATGATTGGTATTTTCAGTGGTGGCGGGTGCCTTGACCTCGACTTTGCCA  
 CGGCTTCAGGAATCGGGACATGAACGAGCAGCAGGAGAGTGGCAGGGAGAATGGCTTGCT  
 ATTCCAACGTTGGCCAATCTAGCTGGCGCTGCACTCGATGAAGCCATTGTGGTGGCTGAA  
 GGAATGCGAGTGGATACAGATCGTATGTCTCGAATTTGGCTTTTGCTGGTGGATTGATC  
 ATGGCGGAAGCTCAGATGATTCAACTAGCTCCAGCTCTGGGGCGTGAGAAAGCTCATGAC  
 TTGGTTTATGAAGCATCCACAAAGACTCGTGAAGAGCACACCACGCTGGCAGAAGAACTG  
 CCGATAATTGCAGTTCAACATGGGGTCAAGACCTGTTGCCTAAGAATTTTGCGCAGCCT  
 GCAGACTACGTGGCGAAGCACAAATCCATGGTGAATGCAGCTGTGCGCCGCTGGAATGCC  
 CAACTT

>RXA02526-downstream

TAACAACCCAAAACCTTTAACAAC

>RXA02530-upstream

CGATCTCCAGGGCTTCCC

>RXA02530

ATGAATCGCCCCGATCCGAAAACTCCAGCTGGCACATTGGTTGCTGGTTATTACGGCGCT  
 TACGAGAACGAGTTCTCCTTCGCAGTTGTGCGCCAGTCAAAGTCTCACGAGTTGAGCCC  
 ACTTCCGAGGATCCTTCGAGCCCATTGCGCGTGAGCAGCGACGATGGTCGAGAGTGGATT  
 ACCCGCATGGTTCTTAATGCAACAGGTACGTGGACAAACCCTTATGTTCCGTACATTCTCT  
 GGCATCGATAAATTCCAGGGCAAGCAGCTCCACACCGTTAATTACCGCAAGGCCGAGGAT  
 TTCAAAGGTAAGAAAGTCTGCTCGTGGCGGTGGTTTGGAGTGTGTGCAATTTCTGCTG  
 GAGTTGGAAGGCTTGGCGGAAACCACCTGGGCGACGCGTCGTCCGCGAATTTACGCAGCG  
 CGAGTTTCGACGCCGGCTGGGGCATTGCGGT

>RXA02530-downstream

TGAGCGCGCGTCCGCGAACGCA

>RXA02531-upstream

CACTTCGCTCCCCAAGGTACATCCCCGATGCCACTTCTTGAGCCATCATCGGTGCCACC  
AAACACATTGAAGTGGGCACTGGAGTAGTGGATATGCGTT

>RXA02531

ATGAAAATCCCTTTGTATATGGCCGAGGAAGCAGCTGCTCTCAATCTGCTTGCCGACGGC  
CGACTAGCCCTCGGAGTTTCCAGGGGATCACCCGAACCAGCCGAGAAGGGTTGGGAAGCT  
TTCGGCTACGACGGCGGTGATGATCCTAAAGCTGCAGGCATGGCACGGGAGAAATTCCTT  
CGCTTCCTCGATGCCATCGATGGTCGCCCCATGTCCATCGCTTCCGAGAATCAATACCCA  
CGCCTCTACCATCCGGGCACTCCCCTGCCGATCTTCCCGCATGATCTTGACTTGGGTAAA  
TCCATTTGGTGGGGCGCCGGTTCCACACAACACCGCCGAACAAGCAGCACGCGATGGCGTT  
AACTTGTAGAGCTCCACCCTCGTCGCCGAAGCCACCGGCCAATCCTTCGGGGATCTGCAA  
GCCGATCAAATCGCGTTCTACCGCCAAGCTTGGAAAGAAGCCGGACACGATTGGACCCCA  
CGTGTGTCTGTCTCCAGGTCCATCTTTCGATCGTCACCGACCGCGACCGTGAGCTTTTC  
GGACTTCAGGGACAAGGCGGTGACCAAGTAGGAATCCTGGATGATACCCGATCCACGTTT  
GGTCGCAGCTACGCCGGAAGTCCCGATGAATCATCGACCAGCTCCAAGGAAGACAAAGC  
TGTGATGGAAGCCGACACCTTGATGCTCACCGCCCCCAACCAAATGGGTGT

>RXA02531-downstream

TGAGATCAACGCGTCGATCCTGA

>RXA02535-upstream

AGGATTGGGTGAGGAGGGAGGCGTCGAAAAGCAAGAAACGCCTGACACGCGTAGCCGTGG  
CTGCGCACCTTTTACCTTGATTAGGTGCACAATAGGGAGT

>RXA02535

GTGACACCTCGCCCTGTTTCTTCTGTTGCGCGACTCGTTGAGGATAACGCGCAAGATTTT  
CTTCGCGCCGTTTCAGGCGAAACTTTTAAACGCTCGCGCCACAGGCTCGTGGGCATTTTCCC  
ACTGCGGATGATGCGACTCATATCAGCATCGCCGAAATGGTGAGTGCGCTGTTGGAAGGC  
ACTGGTGAGGAAGGGAAGTAGACGACAAAACACTGGAGTTCTTTAAAGAAGCGGCGTTA  
GATGCGCGTCGATTTGGCCTGACCCAGAAATGCACAGCGCTTTGGGTGAGGCCGTGCGC  
AGCGAACTATTGTCAATTATGCGAGGATCTTCCCTTTGAAAATGTGCTGTTTGCCGAGCGT  
GCGATTGCTGCAACCACGGCTGTTTCCGTCGAGGCGGTTTCGTGAAGCTGATGAGGCACAC  
ATTCTGCTCATATCAGGCAGAAATTGTAGAAGTTGAAAAGCGCAGCCGTAGGTTCCACC  
GTCGTGCGCATGCAAGCTGAAACGCAACTGCCCTACCTACCGGGACAATATCTTGACGCA  
ACTGCGGATTTTCTGCCCCAACACATGGCGCTACCTGTGCCCTTCGATCCCCACTAACGAA  
TGGGGGCGAGGTGGAGTTTACATCCAATCAGACGCAGATGATATCGCTGGACTTTTAGCC  
ACCACACGCCTTGGCGATAAATGGCGACTTGGCCCCGTCGTGGAGATTTTCGGACAAAGC  
AAAATTAGTTCCGGCAATGATTTGTTATTTATTGACATGGAACGGGCCTAGCTCCTCTT  
CGCGCTTACATGTTTGAGCTGATGAACCAAGCAGCACCTCCACGTTTGCATTTTTCGTC  
GGTGCCGACTACCCCGGTGAGCTGTATGAATCACCAGCATGTGGAATTTTGCTGCAGCC  
AGCCCATGGCTTTCTGTGCTACCGGTGTCAACGCATGACAAGGATGCGTGGTGGGTTCAA  
GCCACCGAAGCATCGCAGCCACCGAGGGGTTTGCATTTGCATCAAACGGGTTTCGATGGCG  
AAGATCGTCACCGAAGCAGGTGCTTGGGCCGACCGCGACGTGTTAATTGCTGGCCCTGAA  
TCGTGGGCTCGGGATGTTTCGGCGCGCATGATTAGGCGTGGAACCTCCGGCCCAGCAGATT  
GAGATTTTAGGGTTC

>RXA02535-downstream

TAGGTTGCCTCACCGGGCTGACC

>RXA02548

CCACCGATCTACTTCTCCCACGACCGCGAAGTTTTCGAGCGCGACGGCATGTGGCTGACC  
GCAGGCGAGTGGGGTGGACCAAGAAGGGCGAGGAGATCGTCACCAAGACTGTCCGCTAC  
CGCACCGTCGGCGATATGTCTGCACCGGTGCTGTGCTCTCCGAAGCCCGCACCATTTGAC  
GATGTGATCGAAGAGATCGCCACCTCCACCCTTACCGAACGTGGCGCAACCCGCGCCGAT  
GACCGCCTCAGCGAATCCGCAATGGAAGACCGCAAGAAGGAAGGCTACTTC

>RXA02548-downstream

TGATGACTGCTCCAACCTTGAAT

>RXA02558-upstream

CCCTCCCGAAATTAGAAATCCCCTTTTAAATGTGATATCACTTTCTGTAAACTGATATCA  
CATTCTTTTTCAGCACCCAGACTTAAAGGAGCACCACC

>RXA02558

ATGAGCACCATAGAAGAGCGCACTCCTGGAGCTGTGCGCCACAGAACCAGTGGGACACGAA  
GGCGCACGCGTCAGCATTAATGAGAAGAACGTGTGGTCTTTGGGCGCAGGTCCAGCAGCT  
TTCGCACTGCTCGCAATGATTGTGCTCATGATTGCCAGTGGAGTTTTCTTCGCTCAATCC  
ATCAACACTTTAGAAAACGATGGCGGTGGAACACTTGCAGTTACGGGACTGATTGCCAGC  
ATCGTCGTTTTCTACTGTTGCATTGGTGGTCACCATAACTTCGGTGAAGGTGGTCAGCCCT  
GGACATACTCTGACTGTGCAGTTCTTTGGACGATACATCGGAACCCCTGCGTCGAAGTGGG  
TTGTCTTTTCGTTCCCCCACTGTCTGTGACGAAGAAAGTGTCCGTGAGGGTCCGAAACTTT  
GAAACCAACGAAGCCAAAGTTAATGACTACAACGGCAACCCCATCAACATTGCAGCGATC  
ATCGTGTGGCAGGTAGCCGATACTGCACAGGCTAGCTTCTCTGTGGAGGATTTTGAAGAG  
TTCTTGCACACGAGCAGGCCGAGTCCGCACTGCGTCACGTGGCAACCCAGCACCCTATGAT  
TCCCCAGTTGATGGTCTGTGTTTCTTGCCTGGCGCTACCGATGAGGTCAGTGAAGAACTC  
GCAGATGAGGTGGCACAACGAGCAGCTGTTGCAGGTCTTGAAATCGTTCGAAGCCCGCATC  
TCTTCTTGTAGCTACGCACCGGAAATTGCCAGGCGATGCTGCAGCGCCAGCAGGCTTCC  
GCGATTGTTGATGCCCCGGAAGATCGTCGAGGGCGCTGTCAACATGGTGGAAACCGCA  
CTTGACCAGCTTGAGCAACGTGAAATTGTGGATTGATCCAGAGCGACGCGCCGCGATG  
GTTTCCAACCTGTTGGTTGTGTTCCGACACCAATGCTCAGCCAATCGTCAACGCC  
GGTAGCCTCTACCAA

>RXA02558-downstream

TAAGACAATGGCCCGCAAACAGG

>RXA02565

GCTGCTCTGGGCGATCTTGCCGATGAAGTAGAAATCGAACACCTCATCTCTGAAGAAGCA  
ACGGTGAGCCCAACTGATTCCAGGTTGTATAACACCTTGGAAGAAAGTTCTTGGTGATTTT  
TTCCCCGATGCGCCTGTGGTCCCAATTATTTCTCTGGTGGCTCTGACCTGCGCTTTGGT  
CGTCGACTAGGCGGTGTTGGTTATGGTTTTGCAGTTCATGCACGTGAACGAACCTTTGGCG  
GAAGCAATGGGGCAACTTCACTCCCATGACGAGGCGCTGTACCTGGAAGATCTTGAAGT  
ACTGTTCCGGGTTATGACTCCGTCGTGCGTGAATTCTTAGGC

>RXA02565-downstream

TAAAAACATGAAGCAGGAGTCTT

>RXA02567

CTTATCCGCAACGCCTGCGTGAATGATCTAACCCAGATTTCAGGTCAGGAAATTAGAAAC  
GCGGAAAGCCTAGAACGTTTCTTTGAAGGAACCCCAACGTAAAAATCACCAAGCTGGAA  
CCGCATCCGGGCCGACCTCAATTATCGTGAAGTTCAGGCAGCGATCCAGATGCTGAG  
CCTTTAACTACTGCTTGGACATACTGATGTTGTGCTGTTGATCTGCCTAAATGGACTAAA  
GATCCATTTCGGTGCAGGAGATTTCCGATGGACAGATTTGGGGTAGAGGGTCCGTCGATATG  
CTCTTTATTACCGCAACCCAAGCGGCCGTACCCGTCAAGTAGCCCGTGAAGGCGGCCTG  
CGTGGCACGCTGACATTCGTTGGCGTTGCTGATGAGGAAGCCCGCGCGGACTCGGAGCG  
AAGTGGCTTTCCGAAGAACACCAAAACCTCTTACGCTGGAAAAACTGCCTCTCCGAATCC  
GGTGGATCGCACCTTCCAGTCCACGACGGCAGCGACGAGTAGTAATTAACGTTGGAGAA  
AAAGGTGCAGCTCAACGTCGATTACGTCATGCGATGCTGGTTCATGGTTCCATTCTT  
TTCGACCGTGACAGCGCTATTGTCAAGATCGGTGAAGTCGCGCCCGAATCGCTGCCGCC  
GATCTGAAGGTAGCCAAGGACGATATCTGGCAAGGCTTCGTCCAAGCGCACCGTTTCGAC  
CCAGAAACGGAGCAGGCG

>RXA02574-upstream

TGTGCTCCTTGCGGGCTGCGCAGAAGAGCCGGAACAGCAAAAAGCAATAAGCCGCTTATC  
GACGTCCCCCTCCACCCCTCCCGCACCGACCGCGGAGGAT

>RXA02574

TTGGCGCGCGCAAATCCCTGAACAGCAACGCGACCAAGTCGCGTCGCTGATGATGGTT  
GGAGTTGCGAATTATGATCAGGCATTGGATGCGCTCAATCAGGGGGTGGGTGGCATCTTT  
ATTGGTTTCTGGACAGATGAAAATCTGCTCACGGAACCTGGCCGTAATATTGAGGCGCTC  
CGCGAAGCCGTCGGCAGGGATTTCTCCGTAGCATCGACTTCGAAGGCGGCGCGTCCAG  
CGTGCCACCAATATTCTTGGTGATTTCCCCTCACCGCGCGTGATGGCGCAAACCATGACG  
CCGGAACAAGTAGAAGATCTCGCAGAAATCCTAGGCACTGGTTTAGCTGCACATGGTGTG  
ACAGTTAACTTTGCACCTGTTGTAGATGTAGATGCTTGGGGTCTCCCCGTGCTTGGCGAT  
CGTTCCTTTTCCAACGACCCAGCCGTAGCAGCTACTTATGCCACAGCTTTTGGAAAGGGC  
TTAAGCAAAGTAGGAATTACCCAGTATTCAAACATTTCCCAGGTCACGGTCGTGCAAGT  
GGCGATTTCGCACACCCAAGATGTGGTGACCCCGCACTTGATGAGCTTAAACTTACGAC  
CTCATCCCTTATGGTCAAGCACTTTCTGAAACTGACGGAGCCGTCATGGTGGGCCACATG  
ATTGTTCCAGGTCTTGGCACCGACGGAGTTCCATCCTCTATCGACCCCGCCACCTATCAA  
CTGCTCCGCACTGGCGATTACCCAGGTGGCGTGCTTTTCGATGGCGTGATCTACCCGAC  
GATCTCTCTGGAATGAGTGCCATTTCCGCCACCCATTACCCGCGAGAAGCAGTGCTTGCC  
TCCCTCAAAGCAGGCGCAGACCAAGCACTATGGATCGACTATGGGTGCTTGGGCTCCGCG  
ATTGATCGCGTTGATGCTGCCGTTAGCAGCGGTGAATACCCCAAGAACAATGCTGGCA  
TCTGCGTTAAGAGTCCAATTGCTCTACATCACACGTCTCGAACAAAAG

>RXA02574-downstream

TGAAGTTACCAGTCCGTAACCCC

>RXA02589-upstream

GCCTAAATTGCAGCGAGAGGTCTAAAAGGTAGTGCTCTAGGGATTCTCCAACTCACGA  
ATATTGAAGTTTTTAAAGTTGAACAGGAAAAATAACAAATA

>RXA02589

ATGTCTATTTCTGATAATTCCCGCGATCAATTAGGAGAACTGCCAGCTGGTCGGCCTCTC  
CAATCCGATTTTGATAATGACCTCGACTACCCACGTCTAGGCAGTGTCACGTTTAGGCGT  
GGCACCTCACTGAAAACCAGCAAAACCATGTGGGATGAAAAGTGGCCTGAACTGGGTCGC  
GTCCTCGAAGATGAGCTGATTGATGTTGATGCGTGGTTTCGGGCGCGAAGGCGCAAAAACC  
ATCGTAGAGATCGGCTCTGGCACTGGAACCTCGACTGCTGCCATGGCTCCACTTGAGGCT  
GATACCAACATTGTCGCCGTCGAACATACAAGCCGGGCTTGGCCAAGTTGATGGGCTCT  
GTTGTCCGTGGAGAGATCGACAACGTGCGCATGGTCCGCGAGACGGCATCGAGGTGCTC  
AACCGCATGTTTGCCGATGGGTCCCTGGACGGCATCCGCGTATACTTCCCGGACCCTTGG  
CCAAAGGCGCGCCACAACAAGCGCCGCATCATCCAGTCTGGTCCGCTGAACCTGTTTGCA  
AAGAAGCTCAAGCCAGGTGGAGTTCTGCACGTTGCTACCGACCACGCTGATTACGCAGAG  
TGGATCAATGAGCTAGTTGAGGTGCAACCACTGCTTGAGTACAAAGGCTGGCCATGGGAG  
GAATGCCCTCAGCTGACTGACCGTCAGGTCATCACCAAGTTTGAAGGCAAAGGCTTGGA  
AAAGATCACGTGATCAATGAGTACTTGTGGCAGAAGGTGCAAAAAC

>RXA02589-downstream

TAATGTCTGATGTGCATGAGGTC

>RXA02592-upstream

AAACACCACCATTTCTCCATCGACGATGCCATCACCACCATTTTGGCATGGATGAA  
CGGCGAAGACATCCGCGACCTCAACTGGACCCGCGCATAA

>RXA02592

ATGGCCTCATTTCCGGAGCTTCCGGCTCTTCGTGCTTGGCTACCTTGGGCAGGTGCTGG  
GGTTTACTGTCTGATTTCAAATACGAACAAACCCGACCTGACATCTTTTACGGAAACCTG  
GCCCTCGATACCTCGAGTCTGGTGGCGGCTTTGTCTGAAGATATTTCTGGCGCCGATTA  
AATGACCTGAAAAGTTCTCGACGTCGGCGGCGGACCCGGATACTTCGCCGAAGCCTTTGAG  
ACACTGGGCGCCACCTACTTCTCCGTGCAACCCGACGTTGGCGAAATGTCCGCAGCTGGC  
ATCGACGTCCACGGATCAGTCCGCGGATCCGGCCTCGACCTGCCGTTTCTTCCCGATTCC  
TTTGACGTGGTGTACTCTCCAACGTTGCAGACATGTCTCCGCACCGTGGGAATTGGGA  
GAAGAAATGCTCCGCGTACCCGCGAGCGGCGCCTGGCAATCCTGAGCTACACCATTTGG  
TTAGGGCCCTTCGGCGGCCATGAAACCGGACTGTGGGAACACTACGTTGGCGGAGAATTT



GCCCCGCGATCGCTACACGAAGAAACACGGGGCACCCGCCTAAGAACGTTTTTCGGGGAGTCA  
CTGTTTAAATGTGTCCTGCCGGGAGGGGCTGGAATGGGGAGCCTCCGTGGGCAATGCGGAA  
TTGGTTGCCGCTTTTCCCCGCTACCAACCCGTATTGGGTCTGGTGGATGGTTAAAGTCCCA  
GTGCTCCGAGAATTGCGGGTAAGTAACCTGGTGTGGTGTGTTAAAAAGCAC

>RXA02592-downstream  
TGAGGTTTTGAGGAATTCATCGC

>RXA02603-upstream  
GCATGGTGCTTGGCGTGCATTACCCAACCGATGTGCTAGCCGGCGCGTTGTTGGGAGCAG  
CGACCGCAGAGGCCGTCCATAAGATCGAAAGGGCTACGAA

>RXA02603  
GTGAGCGAACACGCCGCTGAACATCACCGCGATACCCAAAATTTCTTAACCTCCGAACCG  
CACACCACGGCAATCGAAGACAACAAGAAGCGCCAACCGCCGAAAAACCTTGCTGACGGC  
ATGATCAAGGCGCTGCGCCCCAAGCAGTGGGTCAAGAACGTTCTTGTGCTAGCAGCACCA  
CTTGCTGCTGGTGCAGATGCGATCTTCAACCAGCGCACGATCATCGACGTTGCTATCGCA  
TTCGTAGTGTTCTGCTTCGGTGCATCAGCCATTTACTTGGTTAATGATGCCCCGTGACGTG  
GAAGCTGACCGCGAGCACCCAACCAAGCGTTTCCGCCCCATCGCTGCAGGAGTCTTGCCA  
GTAGGAATGGCATAACGGCATGGCCGTGGCGCTCATTGCACTATCCATCGGACTGTCTTTC  
CTCGCCACCGACGGCGTGGCACTTGCCCTGCGTGATTGGCGTGTACATTGCGCTGCAGCTG  
GGTACTGCTTCGGTTGGAAGCACATGCCAGTGATCGATATTGCGCTTGCTCCTCCCGGA  
TTCATGCTCCGCGCAATGGCAGGTGGTGTGCGCAGCAGGCATCGAGCTATCCCAAGTGGTTC  
CTGCTAGTCGCTGCGTTTGGTTCCTGTTCATGGCATCTGGAAAGCGCTACGCAGAAATC  
CTTCTGCACGAGCGCACCGGCGCTAAGATCCGCAAGTCCCTGGAAAGCTACACCCCCACC  
TACCTGCGCTTCGTTTGGACCATGGCAGCAACAGCAGTGGTCATGTCCTACGCACTGTGG  
GGCTTCGACCTTTCCCAACACTCCACCGACGAGGTCCGTGGTACCAAATCTCCATGGTT  
CCATTACCATCGCCATCCTGCGCTACGCAGCCGGCGTAGACACCGGCGACGGCGGTGCC  
CCTGACGAAGTGGCACTCAGCGACAAGTTCTGCAGGTACTAGCCCTAGCATGGGTTTTC  
TGCATCGTGATGGCTGTGTACATCATGCCGATGTTT

>RXA02603-downstream  
TGAATATTTACCAATGAACATGC

>RXA02630-upstream  
GCGGGTTGCAAAATGTGCGATGATTAAACCACTAAAGAGCTCACAGGAAGTGTTTCACTA  
CTTAGAGTGACGCCCCAGCCACAGGGTTCATAATCAAATC

>RXA02630  
ATGACAAATCAATTCCCCACAAACAACGGTGAGAACCCGGACCGTGATCGGAAACTCCA  
TCAGAAACCAACTCCTTCGAACATGTGCGTAGTTCATATCCGCGAGTGGGGTAACACTGCT  
TCCAATCAAAACCCCTATCCTGGTGGCGGCTTCGGCTCTGAACAAAACACTCAACAAGGA  
AATGAGCAACAAGCTCCAGCCTGGACCAGTTGGGATAATCAGCCTCTAAGCACAGATGTA  
AAGCCAGCTAAAGAAAAGCGAAAAGTTGGCATCGGAACGGCACTCGCGTTAATGCTTGTT  
GGTTCTATTGCTACCGGTAGCGTTGTGGGTGTTGCAGCAACCCAGCTTGGTTCCGACTCT  
TCAACCCAGTTAATGCTCTTGAGCAGCCAGCGTGACGCGACCACTAATGCTGAACCA  
GGTTTCAGCGGAACAGGTGCTGCCGAGTTTTGCCTTCTGTGCTCTCTATTACAGGCCATT  
ACTAGGACGTCTGCTTCTGAGGGCTCTGGATCCATTATTTCTCTGATGGTTACGTCATG  
ACCAATAATCACGTGCTGGCAGGCATTGAACAATCTGGTGTGTTAGAAGTAAGTTTCTCC  
GATGGAACCTACAGCGCAAGCTGATTTTATTGCTGGTGATCCTTCCACAGATATTGCTGTG  
ATCAAGATTAGGGATGTGTCCAACCTTCCAGTTATGAGCTTTGGAGATTTCGGACGCATTA  
GGCGTTGGACAAAGTGTGATGGCTGTTGGTTCTCCACTGGGTCTGAGCTCCACTGTGACC  
ACCGGTATTGTGTCGGCCGTGAACCGTCTGTGCGAGCTTCTGGTGATGGCGGAGAGTCG  
TCCCTCATCGATGCTATCCAGACCGATGCTGCGATCAACCCTGGTAACTCTGGTGGTCCG  
CTGGTTGATATGGATGGCAACCTCATTGGCATGAATTCGGTAATTGCATCGATTTTCGAGC  
ACCAGCGATTCCGCGAGGTCCATTGGTCTTGGTTTTTCTATCCCATCCAACCTTTGCCAAG  
CGCGTGGCCGATCAATTGATCAGCACCGGCCAGGTAACCTCAGCCGATGATCGGTGTGCAG  
GTTGGCACTGACAACCTCAGTGACAGGCGCTGTGATTGCCAGTGTTCAAGATGGTGGACCG  
GCCGCAGATGCTGGACTTCAGCCAGGCGATATCGTGACCAAGCTCAATGATCGAGTTATT

GATAGCCCAGACTCCTTGATCGCTGCTGTTTCGTTTCGCATGATTTTGGCGAAACCGTCACT  
TTAACAATTACACAGCCAGATACCTCGCAGAGCCGGGAGGTAGAGGTTACTCTGACGAGT  
GAG

>RXA02630-downstream  
TAGGTTTAAAAGAGTTAATCTGC

>RXA02641-upstream  
AGGCTTCTCAGTTGTTTCATATAGTCTCAGCCGCACCAATATCATCAGGGAGAACATCGT  
GCAGCAACGACGCCGCATCAGCGAGACTCGGAAAAAACCG

>RXA02641  
ATGCTCGCTATTATTTTGACCGCCGTATTGGGCGCATCTGGCCTTGCAGCCGCTGGCACT  
CAGTACCTCAATACTCAGGGCGAAGGCATCGGTCCGGTCGCCGTCCAAAACGACAGTGAA  
TCGTTTAAATCCGGCACCAACGTGGTTGTTGAAGACGCAGCAGTCACCGCCAGGGTGAA  
GGCGGAGGCGCTCGCACCGTCAAGGAATTCAGCGTGACCAGCAATTCTCTAGTTTGTCT  
CTTACCTGGACCGGTAAAAAAGACATCACTGCTTTTGTTCGCGCAGAACAGGAAGACGGC  
ACCTGGTCACAGTGGTACGACTTGGAGCCAATGGTCAATGAAGATCAAGGCACCAACGGA  
ACTGAGCTGATCTGGCACGGCCCTACCAACAAGATCCAGGTTTCCACCCTCAACGTGGAT  
CTCTTTGGAGCAGATGCTGCAGCCGCTGATGAAAACGGTCAAGACATTCCAGCAGTAGAT  
GCAGCCGAGGCAGCGCCAGCAGCAGAACCTGCACCAGCTGAAGCACCAGTCGAGGAAGCT  
CCTGCACCTGTTCGAGAACCAGCACCAGCTGCTGAACCTATCGCTGAGCCAGTCGCTGAT  
TACTCAGCAAATGACGGCCTCGCTCCCCCTGCCATCCAACCTATGGCGACATCCAGCCTGTT  
GCCGATGTTGATGACGGCCTAAACGCAGTATTTATCGATGGCAACGCTGATGCAGGCGTG  
GGTATCGCTAACGTTGCTGACACCGATGGCATGCCAAAGGTGATTTCTCGTGCTGGTTGG  
GGTGGGACGAAAGTCTGCGCTGCTCAAACCCAACTATTGATGATGGCGTTTCTGCGATC  
ACCATTACCACACTGCGGGTTCCAACAACCTACACCGAGGCGCAGGCTGCAGCCAGGTT  
CGTAGTGCTTACAGCTACCACGCCAAGAACCTCGGCTGGTGCGATATCGGATACCAGTCA  
TTGGTTGATAAGTACGGCAACATCTACGAAGGCCGTGCCGGCGGCATGACCAATGCTGTT  
CAGGGTGCTCAGCTGGCGGCTTCAACCAGAATACTTGGGCAATCTCCATGATTGGCGAC  
TATTCTTACAACGCTCCCCCTCAGGAAACCATCAATGCTGTCGGTGAGCTTGCTGGTTGG  
CGTGCAAAGGTTGCGGTTTCGACCCAACTGGGACTGATACTCACTACTCGGAGGGTACT  
TCTTACGCGAAGTACTCCTATGGCACCCGAGTGTCACCTTCCTAATATCTTGGCTCACCGC  
AATGTCGGCCTGACCGCATGTCCTGGCGATGCTGGCTATGCGCAAATGGAGAATATCCGC  
CAGATCGTTAAGGCAAAGTACACCAGCTTGCAGAATGGCAACACAGGTGGCAGCACTACC  
ACCCCGGCGACAACGCCGAAGGAGACGTCGACAAGCAATGCTCCTTCGACGACCACTGCC  
CAGCTTGTAACCTCCCGCTGAACCTCAGCAGTACAGCGAATCCGATGCCCTGGCAGCTCTG  
CTGACAGGTGGCTCTTCCGGCGGCACCGACCTGCTCAATGGCGCAAACCTCTGAGCAGCTC  
CTGACTGGCCTGGGTTCATTCGCGCTGTGCTGATTGCTGCGTCTTTGGCTGATGGTGGC  
CTGAATGGTCTGATCAGCAATGTTGGTAGCAACAACGGCGTCCCAGTGCTTGGCGATATC  
AAGATCACTGACGTCATCCCAATCGTTGATACCGCGATCAACCTAACCGGAGACAATAAG  
TACTCTCGCGGTTGGAACGACCTGAACAACACGCTTGGACCAGTGCTTGGCGCTGCCACT  
GGTGGCGAAACCACCGTGAAGTACACCAGCGACCAAGAACTCTGAGGTTACTTTCTGTGCCG  
TTTGGAAATGGCATCATGGTGTCTTCCCCTGAGGCTGGAACTCACGGCCTGTGGGGCGCA  
ATCGGTGACGCGTGGGCTCAGCAGGGCGCTGACCTTGGCCCTCTGGGACTTCCAACAGT  
AATGAATACACCGTTGGCGAACAGCTTCGTGTTGATTTCCAGAATGGTTACATCACTTAC  
GATTCTGCGACTGGCCAGGCAAGCATTACAGCTGAAC

>RXA02641-downstream  
TAGTCTCAATTAGAGCCGAAAAAC

>RXA02643-upstream  
TGAGAACACCTAAAAACCTTGGCGGAATACCACCAACCCCATATTGTTGATATATCTACA  
AACTCTTTTAATAAGTCTGATCAACAACGTGAGGAAAGCA

>RXA02643  
ATGAAAAACGTCTCCTTCGGCCTCGACACCTTCGGCGACAACGCCATCGACCTGCAGGGC  
AACCCGGTCTCCCCTGCACAAACACTTCGAAACATCATTGATGAAGCCAAGATGGCAGAC  
AAAGTCGGGGTGATATCATCGGCATCGGAGAGCACCACCGTGAGGAATACTCAGTTTCT

GCACCTGACATCGTCATGACAGCTATCCTCGCATCCACTGAGCGACTCAAAGTCACCTCT  
TCCGTGACTGTGCTGTCTCTGATGATCCTGTTTCGCTGTTTGAGCGTTATTCCACCATG  
AATGCACTGTCCAACGGTCGCGCCGAAATCACCTTGGGACGCGGTTCTTCATTGAGTCT  
TTCCCATTTGTTTGGTTTTGATCTTCAGGACTACGAGCAGCTGTTTAGTGAACGCCCTTGAT  
TTGTTTCGCGAAGATTCTTGAGGCCGACAGCCGTGGTCAGGGCGTGACCTGGCATGGTGAG  
ACCCGCTCGGCGTTGGAAAACAGATGCTTTACCCACCAACTGAGAATGGCATTACGCT  
TGGGTTGCAGTGGGTGGCAGCCAGAATCAGTCGTGCGCGCTGCTAAGTATCGTTTCCCG  
TTGATGCTTGCCATCATCGGCGGTGCTCCTGAGCGTTTCCGCCCGTATGTGGATCTGTAC  
AAGCGTGCCAACGAACAGTTTCGGGCAGCCTCAAAGGCCATTGGTGTGCACTCCCCGTGGA  
CTCATTGCGGCAACTGATGAGGAAGCCCGTGAGCTAGCACTTAATGATTGGTTGGAACTC  
CAACGCAAGATCGGTGCTGAACGCGGTTGGGCTCCTGCGGATGCAATGCAGTTTGAACGC  
GAAATCGATCAGGTTCTTTATACATCGGTTCCCCTGAGACGGTCGCAAAGAAGATCGCC  
AAAACCATTTTCAGTGCTTGATCTTGATCGCTTTACCCTCAAATACGCCAGTGCCAGACC  
CCTCATGAGTACTTGCTGAAGTCCATTGAGTTGTATGGCACTGAGGTTATTCCGCTGGTG  
AAGGACATCTTGACCAAGCAGGCT

>RXA02643-downstream  
TAAGAAGGTCTTAGGACATTCCC

>RXA02644-upstream  
CGTGGGGAAGTGGAGCCCACACTGAAAAGCTTTGCGAGGTCAACATGGCCACCAGGCTAG  
TGAAAATGCTGCCGTTGGCGAGCTAAGATGTGAGATGCT

>RXA02644  
ATGGCACATCTCACGCAATACCAACTCCCTCAGGCCGGTCAAGTCTTTGAGCATGAACTA  
GAGATCAAGCGCTCGCGATTCTGACCTATATCACGCGTGTGCAAGATCAGGAGCAGGCT  
CGCGAATTTATTCACTCCATCAAGGAGCTGTATCCGGATGCGCGTCATCATTGCAGTGCC  
TTTATTTTCCATGTGGATGGCTCAAATGATGTGGAGCGTTCTCTGATGATGGCGAACCT  
TCCGGTACCGCGGGAAAACCATGCTAGAGGCGTTGCGTGGCTCGGGAATGAAAGATATT  
GCCGTGTGGTGGTGCGTTATTTTCGTTGGCTGAAACTGGGCACTGGCGGATTAGTTAAT  
GCCTACACCAAGCGGTGACGAGCTTCTACCTGAGGTTTTGCAAGTCACCCGCTCTGTT  
CGGGAGATTTTCAAGATTGACCTTCCGCATTCTGATGCGGGGCGCATTGAAGCGAATCTG  
CGCGGCATGGGCATCATCATTACTGACACTGAATATGGTGCAGAAGTCACATACACCTTG  
GCTTTATTGCCTGGTGAACAGGCTGCGGTGGAATCTCAATTGTCATCCATGATGGGTGCA  
GAAATTGAATTGAAAGAATCCGGGCACATGTGGGTGGAATCCCCGAGTGAC

>RXA02644-downstream  
TAGTGCGGTGTAAGAGCACTAGA

>RXA02702-upstream  
GCAGGTAACGCCCTCCACGGTGATTGCAGACATGATTGCTGCAACTATCAATAGCCAAACAC  
AACTAAACGACCAGCTCAACGCAAAGGAATAGTTTAAAG

>RXA02702  
GTGACCACTCCACACTTGGATTCTGCACAAGATATTGATCTGTCCCGCGTCCACCTCATC  
GGTATTGGCGGAGCCGGAATGTCTGGCGTTGCCGAATCCTGCTTGCCCGCGGTAAAGACA  
GTCAGTGGTTCCGATGCCAAAGATTCCCGCACCTTGCTTCCACTCCGCGCCGTGGGAGCC  
ACCATCGCAGTGGGACACGCTGCGGAAAACCTTGAGCTTTCCGGCGAACTTCCACCGCTC  
GTGGTGACCTCTTTTGCCGCCATTCCGCAAGACAACCCGGAATTGTTTCGTGCACGTGAA  
GAAGGCATTCCGGTTATTCTGTCGCTCCGATCTGTTGGGCGAATTGCTGGAAGGCTCCACC  
CAGGTCTTGATCGCGGGTACCCACGGTAAGACCTCCACCACCTCTATGTCTGTGGTAGCT  
ATGCAGGCAGCGGGCATGGATCCAAGCTTTGCTATCGGCGGACAGCTCAACAAGGCTGGC  
ACCAATGCGCACCATTGGAAGTGGTGAGGTCTTTATCGCTGAAGCAGATGAATCTGACGCA  
TCGCTGCTGCGCTACAAGCCAAATGTTGCAGTGGTCACCAATGTGGAACCAGACCACCTG  
GACTTCTTTAAAACCCCTGAAGCCTACTTCCAAGTGTTTCGACGATTTTCGAGGACGCATC  
ACCCCGAACGGCAAGCTGGTTGTGTGCCTGAACGATCCTCACGCAGCGGAGCTGGGGGAG  
AGGTCTGTCCGCAAGGGTATCAAGACTGTTGGTTACGGTACCGCTGACGCCGTACAGGCA  
CACCCTGAGGTTCCAGCGATGGCTACCATCGTGATTCCCAAGTTGTCGCGAGAAGGCACC  
CGGCCACCATCAACATCGATGGACAGGAAGTATCTGTGATTCTTCAAATCCCTGGTGAT  
CACATGGTACTCAACGGTGCAGCCGCCCTGCTGGCCGGATACCTGGTGGGTGGGGACGTC

GACAAGCTTGTGAAGGCTTGTCTCGGATTTCTCCGGCGTGCGACGCCGCTTTGAGTTCCAC  
GGTGTATCGAGGGCGGCAAATTTAATGGCGCTGCTATTTATGATGATTACGCACACCAC  
CCAACGGAAGTAAGTGCAGTGTCTAGCGCTGCGCGCACCCGGGTGAAGGCCGCTGGAAAG  
GGCCGTGTATCGTCTCGCTTCCAACCACATTTATACTACGCACCATAGAATTCAAAAG  
GAGTTGCGGGGGGCACTGTCTAGGCGACGCTGCCGTGGTGTGAGATTTACGGAGCG  
CGCGAACAACCGGTGGATGGCGTGTCTCGGAAATCATCACCGATGCGATGACCATTCCA  
GTGGTGTACGAACCTAATTTCTCTGCAGTCCCAGAACGCATTGCAGAAATCGCAGGACCT  
AATGACATCGTGTCTACCATGGGTGCAGGTTCCGTGACCATGCTTGCTCCAGAAATCCTG  
GATCAGCTGCAAAACAAT

>RXA02702-downstream  
TAGGACGTAAGTGAACAAGGCAG

>RXA02703-upstream  
CAAAGCAGGCCTACCGAGCGCCGTTCCGAGAGTCGCGCGATGATTGGCGTGACAACCGCA  
ACCGCAGATAAATGTGAAATCAGGAGAACTACGAATAAAG

>RXA02703  
ATGGCTAACTCCCCAAAACCCATGCGGGTTGTCTGTTGCTGGTGGCGGTACCGCAGGACAT  
ATTGAGCCTGCGTTGGCAGTGGCTGAAGCGCTGCGCGATAAGCACGGTGCAACAGTTTCG  
GCTTTAGGTACTGCTCGTGGTTTGGAAACAACCCCTGGTGCCTGATCGTGGGTTTGAGCTT  
CATCTCATCGAGCCGGTTCAGTCCCACGCAAGCCCAATATGGATTTGTTGAAGCTCCCA  
TTCCGGGTAGCTAAGGCATTAGGCCAAGCACGCAAGGCACTGAAGGACACAGACGCTCAA  
GCGGTATCGGCTTTGGCGGTTATGTATCTGCTCCGGCTTATATGGCGGCGAAGTCTTTG  
GGCTTGCCATTTTTTGTCCACGAAGCCAACGCCCGTGCAGGCATGGCCAACAAATGGGGC  
GTCAAGCTCGGTGGCGTTGGCCTTAATGCTGTTGCTGGTTCCGGCATGGACGGCGACGTG  
GTGGGCATTCCGATTCTGTGCTGTTTTAAGTGGCGCGCGGGATGAGTCCGCAGCTGACCGA  
GCCAGGGACACTTGGGGTTTGGACAAGGACCGCCAAACCATTTTTGTACCCGGTGGTTCG  
CAGGGCTCTGTGAGTATCAACAAGGCCGTCGAGCAAGCTGTAGATCAGCTGGTGGAGGCA  
GGTTTCCAGGTGCTCCACGCCGTGGGTAAGAAAAACGAGTTGCCTGCAGCGAAACCCGGC  
TACCATCCCCTTCCGTTTATCGACGATATGCAGGCTGCCTACACCGTTGCTGATCTTATC  
GTGTGCCGCTCCGGCGCGATGACGGTTGCAGAGGTACCGCCGCCGGCGTCCCCGCGATT  
TATGTCCCGCTGCCTCACGGCAACGGTGAGCAGGCTCTCAACGCCAGGCTGTCAATAAA  
GCTGGTGCCGCACGCCAGATCGACGACGGGACTTACCGCCCAGACGCTTATCGACGCC  
ACCCTTGACATTCTCCTTCATCCCTCCACACACCAATCGATGTCGGACGCAGCTAAAACC  
TCCACCGCAGGTAACGCCTCCACGGTGATTGCAGACATGATTGCTGCAACTATCAATAGC  
CAACACAAC

>RXA02703-downstream  
TAAAACGACCAGCTCAACGCAAA

>RXA02704-upstream  
CGTCTTTGGACATGTTCAAAGGCATGGGCCAGCGTGGCGACCTCTTGCACACAACATCA  
TTGGCACAATCAAAGGATTAACGGAAGAGAAAGGCTGATC

>RXA02704  
ATGACCACCGGAGCCTCAAAAAAACCCGCACGTCCGAACACTGGCGCTAAAACAGAACG  
GGGCTGGGAATTAGGGAGCGTATTTCCGGTGCAATGGAATGATCTTCTCGCGCGCCCTTTA  
ACTGACTACATCATGATCTTGTGCATCGTGGTCATTTTGTCTGCTGCTCGGTGTAGTCATG  
GTGTATTCTCTCAATGACATGGTCGTTGAGGGAAGGTGGCTCCGTGTGGGGTACTGCC  
GTGCGCCAGGGCATCATGATCGTGTGGGTTTCTTTGCCATGTGGGTGGCGTTGATGACG  
CGCCCGCAAACCATAGAAACCTATCCAACCTGATATTGATTGTGTCTATTGTCTTGCTG  
CTTGCCGTGCAGATTCTTGGCATTGGTACAGGTAAGAAGAGGTGGGTGCGAGTCTGTGG  
ATTGCTCTTGGACCTATTAGTTTTCAGCCTTCGGAGATCGCCAAAGTGGCCATTGCCGTG  
TGGGGAGCGCACTACCTCGCAGGCAAGGGCCCTGTGCAGCACTGGTTCAATAATCACTTG  
ATGCGTTTTTGGTGGCGTCCGTGCATTATGGCGTTTTTGTATCTTCATGGAAGGCGACGCC  
GGCATGGCGATGTCTTTCGTGCTGGTTGTATTGTTCATGCTGTTTTTTCGGGGCATCGCC  
ATGGGTTGGATCGCGATTGCCGGCGTACTGATTATCGCAGCCCTCGCAGTCTTGGCATTG  
GGCGGAGGCTTCCGTTCAAGCCGATTTCAGGTTGATTTTCATGCGCTGTTTGGCAATTTT

CACGATGTGCGAGGCATTGCCTTCCAGTCCTATCAGGGCTTCCTCTCTCTTGCAGATGGT  
TCCGGCTTGGGAGTTGGTTTGGGCCAATCAAGGGCGAAGTGGTTCTACCTGCCCGAAGCT  
AAAAATGACTTCATCTTTGCCATCATTGGTGAGGAGCTGGGGCTGTGGGGTGGCGCTCTG  
GTCATCGCACTTTTCGCGGGGCTGCTGTACTTCGGTCTGCGCACAGCCAAGAAGAGCCAC  
GATCCATTCTTGGGCTTGATGGCTGCAACCTTGACGGCATCCGTGGTGTGCGAGGCGTTC  
ATCAACATTGGCTACGTGGTTGGTCTGCTGCCAGTTACCGGTATTTCAGCTGCCCATGATT  
TCCGCCGGTGGTACCTCCGCGATCATTACCTTGGCTTCCATGGGCTTGCTCATTAGCTGT  
GCACGCCACGAACCAGAGACAGTTCTGCGATGGCTTCCTATGGACGCCCCGCAATCGAT  
CGACTTCTGGGATTGCGTGAGCCTTCAAGTACTTTGACCACCAGTAATGCATCCTTGCGT  
TCCAACAAAACCAAGGCCGCTAAACAAAAGCCGAGTCCTCAGAAAGAGTCTCGGGACCGC  
TTCGGCGAGCCTGTGACCGCACGCCGAGCGCAGGCGCCACGAAGTGGGCGAGCTGGAGTA  
CAATCGGAAGCTCCGCGACGCTCGACTGGTAGCGTCAAAGGTGCAAGCAGTGGTCAGGAC  
AACGGTCGAAGCAACGAAGGTACGGCGCGTAGCCAATCAACTACTGGTGGGCGCGCAGCC  
GATCGCAGCGTTGATCGAAGTCGTCAAAGCAGGCCTACCGAGCGCCGTTCCGAGAGTCGC  
GCGATGATTGGCGTGACAACCGCAACCGCAGATAAATGTGAAATCAGGAGAACTACGAAT  
AAAGATGGC

>RXA02704-downstream  
TAACTCCCCAAAACCCATGCGGG

>RXA02705-upstream  
CGTGACCATCCGTTTCTGGCTGATCGCGATCATGGCTGTGTTGGCGGGTGTGCGGTGTGTT  
TTACAGCGACTGGCTCCACTTAGCGGAGGTATAAATAATT

>RXA02705  
ATGGGTTCTCTGTCCCATTACCTCAGGCGCTGCAGGGCCGTATTCTTGTGGCCGGCGCT  
GGTGTTCGGCCTGTCCATTGCAAAGATGCTCAGTGAGTTGCATTGCGATGTTGTGGTC  
GCCGAGCAACGAAGTGCACGTACATGCTCATTGAAGTAGTAGACGTTGCAGATATC  
AGCACCGCGCAGGCTCAGGAACAGCTGGATTCTTTCTCCATTGTGGTCACTCCCCGGGC  
TGGCGCCCAACAAGCACTTTGCTTGTGACGCCCCACGCCAGGGCCTTGAGGTTATCGGT  
GACGTCGAGCTTGCTTGGCGCCTGGACCAGGCAGGTGTTTTCGGCGAGCCACATACGTGG  
CTCGCAGTCACCGGCACCAACGGTAAAACCACCACCATCAATGCTCGCCGCGATGATG  
AATGAGGGCGGTTTTACTGCCAAGGCAGTGGGCAATATCGGCATCCCGGTGTCTGAGGCT  
TTGGTAGCGAAAAACCGCATTGATGTGTAGTTGCAGAGCTGTCTAGTTTCCAATTGCAC  
TGGTCTCCAACCTTCAACCTGATGCTGGCGTGGTGTCAACTTGGCTGAGGATCACATC  
GATTGGCACGGTTCCATGCGTGATTATGCGTTGGCCAAGATGGAAGTGTCAAGGGCAAG  
GTCCGCACTATTGGGGCAGACGATCCTTATTTGGTGCAGCTGACTTCTGAAGCAGACTTG  
AGTGGTCTCATTGGATTTACCGTCAATGAGCCTGCAACCGGCCAGTTGGGTGTGAAAGCG  
GGGGAGCTCGTCGATAATGCCTACGGCAATAATGTGGTGTGTCATCCGCTGACGGCATT  
AATCCCGCCGGCCCTGCCGGTGTTTTGGACGCTTTGGCTGCAGCTGCGGTGGCGCGCTCG  
CAGGGCGTGGCACCTGAGGCGATCGCGCGTGCCTTGGATTCTTTTGGGTGGCAGGCCAC  
CGTGGCCAGGTGCTCGCCGAGCATGACGGTGTTTCAATTCATTGACAACCTCCAAGGCGACC  
AACCCCCACGCTGCTGATTCTGCGCTAGCTGGGCATGATTTCAGTCATTTGGGTGTGCGG  
GGACAGCTCAAAGGCGCGGACATTGCGCCACTGGTGAAAAAGCACGAACAGCGCATCAAG  
GCAGCATTGGTGTGGGGCGCAGATCGTGCTGAAATCGTGGCAGCGTTGAAGGAACACGCG  
TCGCAGGCCTCTGTATTTGTCACCTGACAAGACGAGCCATTGAGGCAATGGAAGAAATC  
GTCACTGAGGCATTTAGCATCAGCGAACC CGGCGATACCGTGTGCTTGCCCCTGCCGCT  
GCGTCTTTGGACATGTTCAAAGGCATGGGCCAGCGTGGCGACCTCTTTGCACACAACATC  
ATTGGCACAAATCAAAGGATTAACGGAAGAGAAAGGC

>RXA02705-downstream  
TGATCATGACCACCGGAGCCTCA

>RXA02706-upstream  
GGTGCAGAAAGCACTACATGGCATGGTGCCGGGCTCAAAAACACAGGTGGCTCGGTCAA  
CGACGATTCTCGTCGGAACGTGGAAGGACAGTAGAAAACA

>RXA02706  
ATGCAACAGATTATGGTCAGTGGAACGGTTGCGTTCCTCGTCTCAATCTTTCTACCCCG

GTGTTGATCCGTTATTTCACTAACC GCCAGTTGGGCCAGGAAATCCGTGAAGAAGGCCTG  
 CAGTCTCACTTGCCTAAGCGTGGCACTCCAACCATGGGTGGCATTGCGATTATCGCGGGC  
 ATTGTTGTGGCCTATGTGTTTACCAATATCTTGGCCATGATCCAAGGCGTTGGTGGATT  
 ACAGTCTCCGGCTTGCTCGTGTGGGTCTGACCTTGGGCCTTGGTGCCACTGGTTTCGCC  
 GATGACTTCATCAAGCTGTACATGAACCGAAACCTTGGTTTGAACAAGACCGCTAAGCTG  
 GTGTCTCAGCTGGCCATTGCGTTGATCTTTGGTTTTTGGTACTGCAGTTTCCCGATGAA  
 AACGGTCTGACCCAGCATCAACCCACCTGTCATTTCATTCGCGATATCGACACCATTGAC  
 CTTGGCTTCGGGGGCGAGCGTTTTTGGCATCATCGTGTTCCTCATCTTTATCTACGTTGTG  
 GTCAGCGCGTGGTGAATGCCGTGAACATCACTGACGGTTTGGATGGTTTGGCCGCGAGGT  
 ACCACAGCATTTGTCTATGGGTGCTTACACCTTGATCACGTTCTGGCAGTTCCGAAACTCC  
 TGCGATACTGCAGTGGAAGCGGGTTGCTATACGGTGCCTGATCCACTGGATTTGTCCGTG  
 TTGTGTGCTGCTGGTCTGGGCGCCACCTTGGGCTTCTGTGGTGGAATGCGGCGCCGGCA  
 AAGATCTTTCATGGGCGACTGCTGTTCTTGGCACTGGGCGGTTTGGTTGCAGGTATTTCT  
 GTGGTTAGTCGACCGAGCTGCTCATGGTTATCATCGGCGCGCTGTTTGTCTATTGAGATC  
 GCTTCTGTTGCGATCCAGATCGGCGTGTAAAGACCGCGGTAAGCGTGTGTTCAAAATG  
 GCTCCGATCCACCACCACTTCGAGGCCCTTGGGTGGGCTGAAACTACCGTGACCATCCGT  
 TTCTGGCTGATCGCGATCATGGCTGTGTTGGCGGTGTCGGTGTGTTTTACAGCGACTGG  
 CTCCACTTAGCGGAGGTA

>RXA02706-downstream  
 TAAATAATTATGGGTCTCTGTC

>RXA02707-upstream  
 TACAACGCAATCCTGATTCTATGCGTGCAGGTATCGCGGCTCTTGCGTACACAGCTAGT  
 GGTGCTTCTGAAGCAACAAAGCTGGGCAGTGCTTGGCCAA

>RXA02707  
 ATGGGTGAGCTTGGCGATGACGCCTCGGAAGCCCATGCCGAACCTGGTGCTGAGCTGGCT  
 AAATACAAGTTCGAAGAACTTGTGCGAGTGGGGGAGAACCCTAACTGTGCAGCACTTGCA  
 GAGTCCGCGAGCGCCTGGGTGTGAGTACTACGTAGTTTCAGACGTTGATGCGAGCGCTC  
 GAGTTGCTCGCAGGCCATATTAAGCGGGATGATGTAGTGCTGGTTAAGGCTTCAAAATGCT  
 GATCGCCTGTGGAGGGTGCAGAAAGCACTACATGGCATGGTGCCGGGCTCAAAAACACA  
 GGTGGCTCGGTCAACGACGATTCTCGTCGGAACGTGGAAGGACAG

>RXA02707-downstream  
 TAGAAAACAATGCAACAGATTAT

>RXA02708-upstream  
 GAGAATATCGCGAGGCAAAAGGCGAGATCATTGAAGCGCTGCCCTCGAAGAAAACGGCT  
 CGGTACCAGTCTGAATACTAGGATCCTTTTGTGCGCCGG

>RXA02708  
 ATGGCTCCACGCACTAAGGCGCGCTGGTGTGGTTTACCACCGATGCAGGCCAAGCAAAA  
 AAGTCTGATTATTGGGCAACGAGTATTTCACTGGACGCTGTTGCGCGGGCAAGCTTTACG  
 CTGAACACGAAGGACGGCTCTTGGCCGGTCACCCTGCAGGTTTTTGGTGAGCACCAGGT  
 GCTAATGCACTTGCTGCTGCTGCCATTGCCATGGAAGCTGGCGTCGCCCCAGAATTGGTG  
 GTTGCTGGATTGGAAGCACATTTCAGCTGCTTCCGCGCACCGCATGGATGTAAAGACCCGT  
 GCCGACGGCGTGACCATCATCAACGATTCTTACAACGCGAATCCTGATTCTATGCGTGCA  
 GGTATCGCGGCTCTTGCGTACACAGCTAGTGGTCTGTTCTGAAGCAACAAAGCTGGGCAGT  
 GCTTGGCCAAATGGG

>RXA02708-downstream  
 TGAGCTTGGCGATGACGCCTCGG

>RXA02709-upstream  
 TTTTGATGACCGCGAAGAGTTGCGGCTGCTTTGACAGAAAAGCTCAACAATAAACTTCC  
 CCTTACTACGGAAGAAGGATAGGCCACAGTCATGATCACA

>RXA02709

ATGACCCTTGGGGAAATCGCTGACATCGTTGGAGGCAGGCTTACTGGCGGTGCTCAAGAA  
GATACGCTTGTGAGCTCCAGCGTGGAGTTTGTATTCTCGATCCCTCACACCGGGTGGCTTG  
TTTTTAGCACTTCCGGGTGCTCGTGTAGACGGCCATGATTTTGTGCAACTGCAATTGAG  
AAAGGTGCGGTTGCAGTATTGGCAGCCCGTGAGGTTGACGTACCTGCGATCGTCGTGCCT  
CCAGTAAAAATCCAGGAATCCAATGCTGACATTTATGCTCATGATCCAGATGGGCATGGC  
GCGGCGGTAGTGAGGCGTTGTCTCGGTTGGCTCGCCACGTGGTGGATATCTGCGTGGCT  
GGCCATCAATTGAACGTTGTGGCTATTACTGGTTCTGCGGAAAGACTTCTACGAAGGAT  
TTCATCGCGACGTTCTTGACCAAGATGGGCCAACTGTGGCTCCTCCGGGCTCGTTTAAAC  
AATGAGCTTGGTTTGGCACACACCGCGCTCCGCTGCACAACCGATACTAAGTATTTGGTG  
GCTGAGATGTCCGCGCGTGGCATTGGACATATTAAGCACCTGACAGAGATTGCTCCGCCA  
CGGATTGCAGCTGTGCTCAACGTCGGCCATGCGCACCTGGGTGAATTTGGATCCCGCGAG  
AATATCGCGCAGGCAAAAGGCGAGATCATTGAAGCGCTGCCCTCGAAGAAAACGGCTCGG  
TACCACTCC

>RXA02709-downstream

TGAATACTAGGATCCTTTTGTGCG

>RXA02710-upstream

GAATTTTCATAATCTGAACTTTTGTTTGAACCTTTTTCGGCATCACCCACGTGCCGCGTCC  
GAATTATTAACACCTAGAAACCTGTGGAGGAGAGAAAACC

>RXA02710

ATGGCAACCACGTTGCTGGACCTCACCAAACCTTATCGATGGCATCCTCAAGGGCTCTGCC  
CAGGGCGTTCCCGCTCACGCAGTAGGGGAACAAGCAATCGCGGCTATTGGTCTTGACTCC  
TCCAGCTTACCTACCTCGGACGCTATTTTTGCTGCAGTTCCAGGAACCCGCACTCACGGC  
GCACAGTTTGCAGGTACGGATAACGCTGCGAAAGCTGTGGCCATTTTGAAGTACGCAGCT  
GGACTTGAGGTGCTCAACGAAGCAGGAGAGACCCGCCAGTCATCGTTGTTGATGATGTC  
CGCGCAGTACTTGGCGCAGCATCATCAAGCATTTATGGCGATCCTTCAAAAGATTTACAG  
CTCATTTGGAGTCACTGGAACCTCAGGTAACCAACCAACAGCTACCTCTTGGAAAAAGGA  
CTCATGGAGGCAGGCCACAAAGTTGGTTTGATCGGCACCACAGGTACAGTATTGACGGG  
GAAGAAGTACCCACAAAGCTCACCCTCAGAAAGCGCCGACTCTGCAGGCATTGTTTGCT  
CGAATGCGCGATCACGGTGTCAACCCACGTGGTGATGGAAGTATCCAGCCATGCATTGTCA  
TTGGGCAGAGTTGCGGGTTCCCACTTTGATGTAGCTGCGTTTACCAACCTGTGCGAGGAT  
CACCTTGATTTCCACCCCAACATGGATGATTACTTTGACGCGAAGGCATTGTTCTTCCGC  
GCAGATTCTCCACTTGTGGCTGACAAACAGGTGCTGTGCGTGGATGATTCTTGGGGTCAG  
CGCATGGCCAGCGTGGCAGCGGATGTGCAAACAGTATCCACCCTTGGGCAAGAAGCAGAC  
TTCAGCGCTACAGACATCAATGTCAGCGACTCTGGCGCCAGAGTTTTAAGATCAACGCC  
CCCTCAAACAGTCTTACCAGGTGAGCTAGCTCTTCCAGGTGCGTTCAACGTTGCTAAC  
GCCACGTTGGCATTGTCCGCTGCGGCACGCGTGGGTGTTGATGGCGAAGCGTTTGCTCGA  
GGCATGTCCAAGGTGCGGTTCCAGGCGTATGGAACGCATTGATGAGGGACAAGACTTC  
CTTGCAAGTGGTGGATTATGCCCCAAGCCTGCTGCAGTGGCTGCTGTGTTGGATACGTTG  
AGGACCCAGATTGACGGGCGCCTCGGAGTGGTTATCGGTGCTGGTGGAGACCGCGATTCC  
ACCAAGCGTGGCCCCATGGGGCAGTTGTCCGCACAGCGTGTGATCTAGTTATTGTCACT  
GATGACAACCCCTCGTTCAGAGGTGCCTGCCACGATTGCGCGCAGCAGTCACTGCAGGAGCA  
CAGCAGGGTGCTTCAGAGTCCGAACGACCGGTGGAAGTCTAGAAATTGGTGACCGTGCA  
GAAGCAATTGCGGTTTTGGTCGAGTGGGCACAGCCTGGAGATGGCATTGTAGTAGCTGGA  
AAAGGCCATGAAGTTGGACAACAGTTGCTGGTGTCAACCAACATTTTGTGACCGCGAA  
GAAGTTGCGGCTGCTTTGACAGAAAAGCTCAACAATAAACTTCCCCTTACTACGGAAGAA  
GGA

>RXA02710-downstream

TAGGCCACAGTCATGATCACAAT

>RXA02711-upstream

AAAACCTCCAGGCGATTCCACAAGAAGCAGCAGCTCCGCCGTATCAGACCAACACTGTTT  
CTTATGCTGCAACCACCGGACAAGCAGGTGGCGCAGGGCA

>RXA02711

GTGACTTTCCCCAGCAATGGCAGAAGTCGGGGCGAGCGTGCGGGACGTGAAGATACGTCC  
CGCCGTTTCGGCGTATCAGGACGAAAGCAGAAGAGCCGCTAGAGAGCGGAACTTACGCGA  
CGCAGCGGTAAAGCTAAAGGCGTAAACCAAGAAGAAGGAGTGACCTACCGGCCCTAAATCT  
TCAACCCAGGGCGGGCGCACGCAAGCGACGTGTGAACATGGTTACCGCTATCGCATTTGGTC  
ATCGCTGGCGTACTGATCATTCGCCCTCGGCTGGGTCCAAGTTGTCTGGGGACCAGAACTG  
TCCCTCAATGCTTCGGAACAGCGCACCCGCGTGTACGTAGATCCTGCACGTCGTGGAAGC  
ATCGTGGACCGCGAAGGAAACCAGATGGCGTACACGATGCAGGCACGTTGCTGACGGTT  
TCTCCGAACATCATGCGTGAGGAATTAAAGACCGGAACTGATTTGGCCTTGCCTTTGGCG  
GCTGAAGAAACCGATCCGGAAAACGTGGCCAGCTATGTGACCATCGAAGAAGGCAACGCG  
TATGTTTTTTGCGTCTGAAGAACAGCGCGAAACCATTCTGTCCGACAAGGTAGAAGAGCGC  
ATTCAAAGCATTGCGGATCGGATCCCTGAGATCATCAAATCCCATGACCAAGATGTCACT  
GGAATTTTCTCTGAGGAGATCCTGGACAAGCTCAATGCTGATAGCCAGTATGAGGTGCTC  
GTCCGCAATGTTGATCCCGATGTAGCGTCAGAAATCACCGATGAGATGCCAGCGTCGCA  
GCTGATCATCAAGACATCCGCCAATACCCAAACGGCGCGATTGGTGAAAAACATCATCGGT  
CGAATCAGCATGGACGGCGAAGGCCAGTTCCGGCTTTGAGGCTTCCAACGATTCCCTGTTG  
GCAGGAAACAACGGTTCGCTCAACCCAGGACATGTCCATTTTGGGACAAGCAATACCGGGC  
ACGTTGAGGGATCAAATTCAGCCATTGATGGTGCCAGCGTTGAACTCACCGTTGATCTG  
GATCTGCAAACCTATGTGCAGCAGGCATTGGAGCAGGCGAAAGCTAACTCCGGTGCAGAA  
AACGCCTCCGCTGTGGTTCTTGATGCCAAGACCGCTGAGGTTTTGGCGATGGCAAACACC  
GATACCATCAACCCCAACGAAGACACGGGAAAGCAGATTGAGCAGGGCAAGAGCTTTGAC  
AATCCTTCTGTACCCACCCCTTCGAGCCTGGTTCTGTAGCCAAGGTGATTACTGCAGCA  
GGCGTAATTCAAGAGGGCTTGACTACTCCAGATGAAGTGTTCAGGTACCGGGCAGTATT  
GAAATGGCCGGTGTCTTCTGTCGGTGATGCGTGGGACCACGGTGTCTGTTCCCTACACCACT  
GCAGGAATTTTTGGTAAGTCTCGAATGTAGGCACTCTGATGCTTGCGCAGCGTCTTGGT  
GAAGATAAATTTGCTGATTACCTGGAACGATTCCGGTGTGGGACAGCAACGGGTATTGAG  
CTTCCGAGCGAATCCCAAGGCCGTGCTGCCCCGACGTGAGCAGTGGTCTGGCGGTACTTTT  
GCTAACCTGCCCATCGGTGAGGTATGTGATCACCACGTTGCAAATGGCTGGAATCTAC  
CAAGCCTTGGCCAACGATGGTGAACGCATTCAACCGCGGATCATCAAGAGCGTGACTGAT  
TCTGACGGAACAGTCTTAGAGCAGCCAGAACCCGATAAAATCCAGGTTGTCAGCGCTGAA  
GCTGCCCGCACACGGTGGATATGTTTAGTCTGTCAACCCAGGTTGATCCAACCTGGAGTG  
CAACAAGGTACCGTCCAGACGCCCTCCATTGAGGGTTATCAAATCTCAGGTAAGACAGGT  
ACGGCGAGAAAGTTGACCCCAACACGGGGCGGTACTCTAACTCGCAATACTGGATTACC  
TTCGCGGGTATTGCACCCGCTGATGATCCTCGATTTGTTGTAGCCATCATGCTTGATGAG  
CCAGAACGCGGAGTCCACGGTGGTGGCGGCCAAACCGCAGCACCTTTGTTCAAAGACATC  
GCCACCTGGTTGCTCAACCGCGACAACATCCCACTGTCTGCAGCCACCGAACCGATCATC  
CTTCAAGCTCAA

>RXA02711-downstream  
TAACTCAAACAGAAGTGTCTTTT

>RXA02713-upstream  
TGATATGTGGCTATGACATTGTGCGCGAGTTTTTTTATCCACAAACATAAGTACAAGACA  
TTGGACATCTAGGCCGGCAGGAAAAGGGGGGAACACGCAC

>RXA02713  
ATGGAAGATTTTTTCCTTGGATGGCAACCACGGACACGTTCCCGTAATGCGTGATCGTATG  
GCGGCTTTGATCGCCGAACACGTGGAAGCATGGGAGAAAACGCTGTCATTGTTGACGCA  
ACCTTTGGCGCAGGCGGGCATGCGGAGTTCTTCTGAACACGTTCCCCAAAGCGCGCCTG  
ATTGGCCTTGATCGTGACCAAAATGCGTTGCGGGATGCTCGCGCGGACTTGCTCCTTTC  
GGGGAGCGGTTTATTGGCGTCCAGACGCGTTTCGACGGAATCCGCGAGGTGTTGGAATCT  
GTCGAGGGCGACATCATTTAGTCTCGCGAGCACGGTATCGCTGGCGCTCTGTTTGAT  
CTGGGTGTCTCCTCGATGCAGCTTGATCAGGTGGAGCGTGGCTTTGCCTACCGCACGGAC  
GCGCCTCTGGACATGCGCATGGATGCAACTCAGGGTATTACGGCTGCAGATATCCTCAAC  
ACTTATTTCGATGGTGACATCGCTCGAATCTTGAAGACTTACGGCGATGAACGCTTCGCC  
GGCAAGATTGCTTCTGCGGTGCTGAAAGAACGTGAAAAAGAGCCGTTCACTACCTCTGCT  
CGTTTGGTGGAGCTTCTGTACGACGCCATCCCTGCAGCGACCCGCCGAACCGGTGGACAC  
CCCGCGAAACGTACTTTCCAGGCGTTGCGCGTTGAGGTGAACAACGAGCTTGATTTCCCTG  
AAGAATGTGCTTCTCAAATCACTGACGCCCTCAATGTTGGGGGACGTGCAGTGTTTATG  
AGCTACCAGTCTCATGAGGACAAGCTGGTGAAGAAGTTCTTCACGGATCTGACCACCTCT  
AAGACCCCTCCGGGCTTGCTGTTGATCTTCTGGAACCTGCACCACAGTTTAAGCAGGTT



ACTCGCGGTGCTGAAACGGCTTCGGAAGCTGAAATTGAAGAAAACCCACGTGCCGCACCT  
GTGAAGGTGCGCGCAATCGAAAGAATCGGCAACAACCTCAGGAGACCTCTCA

>RXA02713-downstream  
TGACCATGACAAATGGCTCCCGC

>RXA02716-upstream  
AATGGATTTTGGGGTGTAAGTACTTCAAGTTCGGCCGATTCTGCATAGATTTCTGCGGA  
ACACCAACTCACATCACCCTTCTGGTTTGATGGGGAGC

>RXA02716  
GTGTCACCGATCATTTCGTAAATTGAGTATCCCCGAGTTCACCACCAACACCCAGTGTTG  
GTGGATATCTACATCGCAGCGATGAACATGACAAAGCAATCAGGGATACCCGGATCGAA  
GTCTGGCGGAGAACTCCAGAACCCCGGATTACAGCAGTGGCAGCGCTGATGGATGAT  
CAGGTCGTGGGCGTGGCCTATGGCTTCAATGGCAGCCAGATCATTGGTGGCAACACCAA  
TTACGCCGGGACTCCGACAACAAGGAGGCCCGACGGAAGAGGAAATCCATATCATCCAC  
AACTACTTTGAGGTTGCGGAAGTTCATGTTTCAAGCTGGCTTCCAAGGTCACGGCATTTGGC  
CGAAAGCTGATGCATGAACGTGTTAAAGACAAACAAACACTTTTGCCATTTTGTCTACA  
CCCGAGGTCGACGATGAGGCGAACCATGCGTTTAGCCTGTATCGCTCTCTCGGCTTCACT  
GACTTGCTCAGGCAGTTTAGGTTTGACGGGGATCAACGGCCGTTTGCCGTATTGATCACC  
GCCCTCCCCCTTCATGATTCC

>RXA02716-downstream  
TAAGAGGGCTTAACGCACCGCGT

>RXA02722-upstream  
ACTTTTAGATAAGCTCTCACAGTGCTGACTGCTTATCTGAGATGAAAATAAAAGCAAAAT  
TTTTTTTAGTATCAACTCTTCGAAAGGCGAGACATCGACA

>RXA02722  
ATGACCTCACCGAACAACCTACCTCGCCAAGATTAAGGTGCTCGGCGTGGGCGGCGGCGGA  
GTCAACGCCGTCAACCGCATGATTGAAGAAGGCCTCAAAGGCGTGGAGTTCATCGCGGTG  
AACACCGACTCGCAGGCTCTCATGTTCTCTGATGCCGACGTAAAGCTCGATATCGGACGT  
GAAGCTACCCGTGGTCTTGGTGCCGGCGCGAACCAGAAAGTTGGACGTGCCTCGGCAGAG  
GATCACAAGAACGAAATCGAAGAAACCATCAAGGGCGCCGACATGGTCTTCGTTACCGCC  
GGCGAAGGTGGTGGCACCGGAACCTGGTGCTGCACCAAGTTCGTTGGCAGGGATCGCCAAGAAG  
ATGGGCGCACTGACCATTGGTGTTGTGACCAAGCCTTTTCAGTTTCGAAGGCCGTGCGCGT  
ACTCGCCAGGCAGAAGAAGGCATCGCAGCACTGAAGGAGGTCTGCGACACCCCTCATCGTT  
ATTCCAAACGACCGCCTGCTTGAGCTGGGCGATGCGAACCTGTCCATCATGGAAGCGTTC  
CGCGCAGCCGATGAAGTTCTCCACAATGGTGTTTCAAGGTATTACCAACCTGATCACCATC  
CCTGGTGTGATCAACGTGGACTTCGCGGACGTTGCTCCGTCATGTCCGAAGCTGGTTCC  
GCACTCATGGGTGTGGGCTCTGCACGTGGGGACAACCGCGTTGTCTCTGCAACCGAGCAG  
GCCATCAACTCTCACTTCTCGAAGCAACAATGGACGGCGCAACTGGCGTCCTGCTGTCC  
TTTGCTGGTGGATCCGACCTGGGCCTCATGGAAGTCAACGCAGCTGCATCCATGGTCCGT  
GAGCGTTCCGATGAAGATGTCAACCTCATCTTCGGTACCATCATCGACGACAACCTGGGC  
GACGAAGTCCGCGTAACCGTCAATCGCGACCGGTTTTGACGCAGCTCGCGCAAGCGCCGCT  
GAGAACCGCCGCGCAGGCATCTCAGCTGCACCTGCAGCTGAGCCAGTCCAGCAGCAGGTC  
CCAACCACCAACGCAACCCCTCCACCAGAGAAGGAAAGCATCTTCGGTGGTGCACGTGAG  
GAGAACGATCCTTACCTGTCCCGCTCTGCTGGTGCACGTCATCGCATTGAGGAGACCCGC  
TCCGGCGGTGGACTCTTCAACACCGGCAATGATCGCGATTACCGTCTGTGATGAGCGCCGC  
GAAGATCACCGTGACGAGCGCCGCGATGAGCGCCGCGATGACCGTTCTACGACCGCCGT  
GATGATCGTCTGACGATCGCCGCGATGACCGCGGAGACGACCTGGATGTACCCAGCTTC  
CTCCAG

>RXA02722-downstream  
TAATTAAGAAGGAGAATAGACTT

>RXA02723

GATGCGACTGCAGCAGGGCAAACATTGTGGAATTGCCCTGGGTGAAATCGGTGACCGTT  
 AACCGTGCCCTGCCAAGCACCATCACCGTGGAGCTGACAGAGCGTGAGCCTGCAGTGTTT  
 ATCAAGCGTGCTGATGGTGACCATGTCATTGACACCGAGGGTAAAGAAATTATCATTGGA  
 ACACCCCGGTGGGAACAGTAGAAGTTTCTGGCGCGGATGAAGGAACTCAGAAGTGCTT  
 CCTGCGGTTATTGCTGTAATCAACGCAATTAAAGCGCAAGATGCGCAGATGACAGAAAGT  
 ATCCAGGTAGTGGAAGCTCCGGATCAATTTGATATCTTGCTGAAAATGAATGATGGCCGG  
 GAAATCTACTGGGGATCCTCGGAAAACAACCACGATAAAGCGGTGGCAATGTCGACTGTT  
 TTGAAGCGGGAAGGCCAACGTTGGAACATTAGCTCACCTCAATGGTGACAGTCCGC

>RXA02723-downstream  
 TAAAGTGGCTGGGTAGTTCCGGT

>RXA02745  
 GCCGGAATCTCCTTCGAAGTCCCCGCGGTCAAGTTTTGGCCCTCCTGGGACCTAATGGC  
 GCAGGCAAAACCACCACCATTGAAATGTGCGAAGGTTTTACCGCCCCACCTCTGGCAGC  
 ATCCGAGTCTTGGGCATCGATCCAGCCACAGAACCAGACCAGGTGCGCCGACGCATCGGC  
 ATCATGCTTCAAGGTGGCGGTTCTACAGCGGAATCCGCGTGTTTGAAATGCTCAAGCTT  
 GCGGCGTCTACAACGACAACCCACACGATCCTGAATGGCTGCTTGATCTTGATAGGACTG  
 CGTGAACAACGCAAAACCACCTACCGACGTCTGTGAGGTGGCCAACAGCAACGCCTTTCT  
 TTGGCCTTAGCATTAAATTGGTCGCCCTGAGATTATCTTCCTCGACGAACCCACCGCTGGC  
 ATGGATGCGCAATCACGCAACATGGTGTGGGAGCTTGTCAACGATCTCCGCCGCGACGGC  
 GTCACCATCGTGCTCACCACCCACCTGATGGATGAGGCCGAAGCACTAGCTGACCACGTG  
 ATCATCGTTGCCAACGGTCAAATCCTTGCCAGTGGCACACCTGATGAACTCACTGCGCAA  
 CGCGATCATCTTGAAATTAATGTCTCCGTAGAGACCACGAGCCCGCTTGATCTTGATCGC  
 TTGGTGGATGATCTCAGCAGCTTAAACATCGGTGATGTGAAAGCACGAGCCAACCGGCCA  
 CTGCATTATTCACTTCGGACGCAACAAGCCACCCCGGATTCTTGCGGCACATCGTCCAG  
 GCTGTGCCCCGCCAAAACGTCATGATTCGCTCTTTGGATACGGGACACCGCTCATTGGAA  
 GATGTCTTCCTGGACATCACCGGAAAAGAACTGAGGAGT

>RXA02745-downstream  
 TAACGCACACCATGTCTAAACCT

>RXA02746  
 GGTGTGCAGGGCATGACTGTCACCGAAACCCAAGGCTTTGGCCAGCAGAAAGGCCACACC  
 GAGGTGTACCGTGGTGCTGAATACGCTGTCGATTTTGTGCCTAAGGTCAAGATTGAAGTT  
 ATTATCTCCGATGCTCAGGCTGAGGAAGTCATCAACATTATCGTCGAGACCGCACGCACC  
 GGCAAAGTCGGCGACGGCAAAGTGTGGATGACTAACATCGAAGAGCTGGTTTCGTGTTCTG  
 ACCGGTGAGCGCGGCGAAGCAGCCCTT

>RXA02746-downstream  
 TAAAACTTATGAATAATCCAGC

>RXA02813  
 GGCGCGCTGACCGGCGGCTGGCTGGTTGCGGTGGACAATGCGGCACGCGCCCTGGAGGCG  
 CTGGAGTTTCCGGTGTCGTATGGCGGTGCCAGCGGAAATATGACGGCGGTGCACCCGCGT  
 GGCTTCGAGATTGAGGCGAAGCTGGCCGAGGAGTTGGGCCTTTTTGATCCGCGAGTGGGTG  
 TGGCATTCCGATCGCACGCCGATCACTGCGATCGCGTCGGCGCTGGCAACGGCCGCTGGT  
 GTGGTACGCAAAATTGCTGGTGACGTGGTGTCTTACTCACAACCGAGGTGGCGAGTTG  
 CGGGAGAAATCCCCGGCGGCAGCTCCGCGATGCCCCACAAAGCCAATCCGGCCGCTGCG  
 ATTGCGTGCGACGGTTACGCGCGCGGGCACCTGGCCTTCTTGCAACGCTTTTCGACGCC  
 CTCGACTGCCGTTTTCAGCGCGGCACCGGCAGCTGGCACGCGGAGTGGGCAACGCTGCGC  
 GAGTTGGCTGCTGTCACTCACTCAGCAGTGAGCAGGGCTGCAACCAGCATCGATGGCATC  
 ACCGTCAACGTTGATGTGATGGCAAGTCGCGTCAATGGACCAACCGGGCACGCCGAAGAT  
 TTGGCGGAGCGGGCACTAGAAATTTATGGAAGGACGCAGT

>RXA02813-downstream  
 TAATGGATC

>RXA02820

GCTAACTCCGCTGAGGATCTCTCCACGATCCGGAAGCTGCCGCATATTTCCCTTGATGAA  
AACGGTGATGCGAAGGCACCCGGCACACTTTTACAAAACCCTGACTATGCAGAAACGATT  
CGTCTCATCTCTGAAGGTGGCCCCGATGCGTTCTACACGGGTGAGATTGCAGCAGACATC  
GTGGAACGCGCCACCCGTGAGGTTGACGGTTTACACCATCACTGATGAGCACGGCAGAT  
TTGGCTGCCTACACTCCGGAACCTCGTGAAGCTTTGTGTGCTCCCTACCGCGACAAGATT  
GTTTGTGGCATGCCACCGTCATCATCGGGTGGCGTCACAGTGATGGAAACCCTGGGTATC  
TTGAACAACCTTTGATCTCGCCCAATACCCACCCACTGAGGTTGGTTTGGATGGCGGATTG  
CCAAATGCGGAAGCTGTTACCTGATTTACAGAGGCTGAGCGCCTGGCTTATGCTGATCGC  
GATGCTTACATCGGTGATCCTGCTTTC

>RXA02828-upstream

AGTCAGGATTTATG

>RXA02828

ATGAAACGACGTGACTTCCTGTCGGCGCTTTCTGCCGGCACCCCTCTCGCTGGGCGGNTTT  
GCGCCCCAACTGCTGCTGGCCCAAGGGATGAATCAGCCAATGCGCGCGCCCATTTCATGTG  
GGTAAATCGGGCCTGCGCGCCCCGCGACGCCGAGGCGCTTGCCACCTGGTACCAAAGCCAC  
GTCGGCCTGCAAGAAATTGGCCGCGACGGCGCGACGATCCACATGGGTGCGGGCGGCACC  
GTGCTGCTGGAAATCACGCAGTACGACGGTATCGTGCTGGCGCCCATGCGCGTCGCGGGC  
CTTTATCACAAACGCGTTTCCTGCTGCCCGCGCGCGGATCTGGCGCGGTGGGTGCTGGAC  
GCCTCGGCACGGCAACTGCGGATCGACGGCTATGCCGACCACCTTGTACGCGAGGCGATG  
TACCTGACCGACCCCGAAGGCAACGGCGTCGAAATCTACGCCGACCGCCCCGCCAGCGAC  
TGGGTCTGGCGCAATGGTCAGGTCGAGATGGACAGCCTGCAAATCGACTTCTACAGCATG  
ATCGCCACGCTTGACGGC

>RXA02834

GATTCTAAAGGTAGAAGTGTTGACTTTAAAATACCATTATCATCATGACTAGTAATATT  
GGTTCACAAGTATTACTTGAAAATGTAAAAGATGCTGGTGAAATTAGTGATGATACAGAG  
AAAGCAGTTATGGACAGTCTACATGCATACTTCAAACCTGAAATATTAAATCGTATGGAT  
GACATCGTGTTATTTAAACCATTATCAGTTAATGATATGAGTATGATTGTAGATAAAATT  
TTAACACAATTAAATATGAGATTATTAGATCAACATATCTCAATTGAAGTGACAGAAGAA  
GCGAAAAAATGGCTAGGTGAAGAAGCGTATGAACCACAATTTGGTGCAAGACCATTAAAA  
CGCTTTGTTCAACGACAAATAGAACTCCAATTGCACGTATGATGATTAAAGAAAGTCTA  
CCTGAAGGTACAATAATTAAAGTAGATTTAAATGACAATAAAGAACTTGATTTTAAGGTT  
GTTAAACCTACGCTCT

>RXA02834-downstream

TAATCTAGCAAAATATTAATTTG

>RXA02839

TGTGTGGTGAATGATTATGCTGACCGCAAGTTTGATGGTCATGTTAAGCGCACGGCGAAC  
CGACCACTTCCCAGCGGCGCGGTAACAGAGAAAGAGGCGCGCGCTGTTTGTGCTGCTG  
GTACTGATTTCTGTTTTACTGGTGCTGACGCTGAATACGATGACCATTTCTGTTGTGCTG  
GCCGCGCTAGCGCTGGCGTGGGTGTACCCGTTTATGAAGCGGTATACCCATCTACCGCAA  
GTGGTGCTGGGCGCGCGCTTTGGCTGGTCGATTCCAATGGCTTTTGCCGCTGTGAGTGAG  
TCGGTGCCATTGAGTTGCTGGTTAATGTTTCTCGCCAATATTCTCTGGGCGGTGGCTTAC  
GACACGCAGTATGCGATGGTTGACCGCGATGATGATGTGAAGATTGGCATTAAATCC

>RXA02855-upstream

ACCCCGATCCTTTGTTTTCTGGGATCACTATTAGACTCGACTCTACCGCGCTGCAGGTT  
TTCTTGATACGCTGCGGACAAAACAGAAAGGTATTTAC

>RXA02855

GTGATGGAAATTGGTGTGCAGGTTGCCTCATGGATGGACCGCCACCATGACGAGGTCATA  
AAGTGGCGCAGGCATTTGCACAGCCATCCTGAGCTCTCCACATGGAATACCGCACGACT

GAGTATTTGGCCTCGGTTCTGAAAGATCACGGCATGGAACACACCTGTTCCCAGGAACC  
 GGTTTGATGGTGGATATCGGACCAGAAGGGGACTCCCGCCTGGCGTTTCGCGCTGATATC  
 GATGCCCTTCCGCTGCTTGAATCAACCGGCTTAGAGTTCTCTTCCACAGCCACTGGCGTT  
 GCGCATGCCTGCGGACATGACGTGCACACGGTGATCGCTTTGGCACTTGCTGTGCACTG  
 AACACCATCGAACTGCCCATCGGCATTTCGGGTGATTTTCCAGCCGGCAGAAGAAGTCATG  
 ACTGGTGGCGCAACGGACGTCAATGCCCACGGTGGCCTTGATGGTGTGGATGCGATTAC  
 GCCATCCACGTTGAACCCAAATTGAAGGTCGGTCGCGTCGGTGTACGCGCTGGCGCGATT  
 ACTTCTGCCTCAGATGTGATCGAAATCAGAGTCAAGGGTGAAGGAGGACATAGCGCACGT  
 CCACACCTCTCCGCTGATGTTGTTTACGCCTTGAGCAAATTGGTCGTTGATCTTCCCGGT  
 TTGCTGTCCAGGCGCGTCGATCCACGCACCGGCACCGTGCTTGTTCGGCACCATCAAC  
 GCCGGCTATGCGCCCAACGCGATCCCAGATTCCGGCATCGTGTGAGGCACCTTGCGTACA  
 GCCGACATCTCTACCTGGCGTGACATGCGTCCGCTTATCTCTGAGCTGGTGGAACAGGTG  
 CTCGCACCCACCGGAGTCACCCATGAACTGATCTACAATCCGGGTGTTCCACCAGTGCTT  
 AACGACGATGTGCGCCACCGCTTTGTTGGCAAGCGCAGCACGCGACATGGACACACAATCT  
 GTTGTCCAAGCGCCGAGTCATCCGGTGGAGAAGACTTCTCGTGGTACCTTGAACACGTC  
 CCAGGATCAATGGCCCCGTTGGGTGCTGGCCGGGGCACGGACCCAAGCAAGACCTCCAT  
 CAAAGTGACCTGGTTGTGGATGAGCGAGCCATCGGAGTTGGCGTCAGGCTCTTTGGCTCC  
 CTTGTGCAGCAGTACAGTAGCCGATCTGAAGCTTTCTTAAATTCC

>RXA02855-downstream  
 TAATGGGGGTAGTGTGTAGGGCT

>RXA02859  
 CAGTATACCGTTGATCAGCTGCTGCACGGTCTTCTTTTAGCCAGCGGTAACGATGCGGCG  
 TATCTGTTGGCTCAGGAACCTTGGTGGGGATCAAGCAACCCTGGAGAAAGTAAACGCGCTG  
 GCCAAGGAGTTGGGCACTCAAGACACCTTCGTTGCCACTTATTCCGGTTTGATGCGCCG  
 GGAATGTGACCTCCGCATACGACATGTCATTGATTTATCAGCATGCGTGGCAGAACCCG  
 GTTTTCGAGTCGATTATCTCCACCGATCACATTGATTTCCCTGGTTGGGGCGACAATGAG  
 GGTTTCCAAGTCTGGAACGATAACGCCTTGTTTCATGAACGATCCTGATGGCATCGGCGGC  
 AAGACCGGCTACACCGACGACGCGAACCACACCTTTGTCGGCGGTCTCGATCGGGGTGGT  
 CGCCGCCTCGCCGCCGTACTCTTGGATTCCACCGTCAGCGACATTCTGTCGGTGGGAACAA  
 GCACGATTGCTTATCGACGCCTCCCTCCCCATCACGCCGGGGTCCGGCGTGGGCCAGCTG  
 GGCTCCGGCAGCGCGAACGATGTGGCACCGGCGACCCAGAATTACCAGAACCCACCGAC  
 AACCTGACTTCAGGTGAGGGTGGGTGCGAGAACACGCTGCTTAAGCTCGTGGTGCCCATC  
 GGAATCATCGTGCTGTTGCTAATCGCCGCACTAGCGTGGACATTACAGATCTCCCAAGAAA  
 AAGAAC

>RXA02859-downstream  
 TAGGTGTTCTTCTTCACGACCTC

>RXA02895-upstream  
 TAGAAAAATCTACCCAGTAAGCATTACAGGAACCATTACAGAATCTTTTCTTAGCATGTCTC  
 TATCAGCGTAAACGTCCGAACATGAAAGGCTAGAAAAGCC

>RXA02895  
 ATGGCTGAGCAGTTGCGTCAATTTGAAGGCAGGGTCCTCCCTAATCAATCCGAGGACTTG  
 GAAGATCAGGGTTTGGGATTTGACCTGGGAACCGTTTTCTCCCGCAGGAAGGTTTGGGA  
 TTCATCGGTGTTGGTGGAGCAGGTGTGGCACTTGCTGCTTGTTCACCTTCTGGTTCTTCC  
 GCGGCATCGAGCACCTCAAGCGCGTCCAGCAGCGCAGCTGCAACCACAGTGCAGCAGCA  
 GAGACTTTGACTGAGATGAAGTCGGAGACTGCTGGTCCGTACCCGGGCGATGGTTCGAAT  
 GGTCCGGATGTGTTGGAGGTCTCCGGTGTGGAGCGCCAGGACATACCAAGTCGATTGAT  
 TCTGACACCGTGGCAGAGGGCGTACCTCTGACGTTGACTATGACCATTTTGGACATGAAC  
 AACAACAATCAGCCAATGGAGGGTGCTGCGGTGTACGTGTGGCACTGTGATGCGCCGGGT  
 CGATATTGATGTACGACTCTGAGCTGGAAGATGAGACCTATTTACGCGGTGTGACGATT  
 ACCGATAAGTATGGCCAGGTACGTTTCGATACCATTTTCCCTGGTTGTTATGCGGGCCGT  
 TGGGTGCATATTCAATTCAGAGGTGTTCCCGGATCGAGACAGCATCACGGATTCCACGAAC  
 AACATT

>RXN00045-upstream  
 TGCGATGGCAGTTCTCACCAGAGCCTCAGCGACGAAGAACTGCTCGCATTCACGCCAT

TGTTGATGAATTCCTGTACACCGCTTAAGGCCACACCTC

>RXN00045

ATGACTGATCCCACCTTGCACCCCTTGCCCTTGATATTGGTGCCACAAAGATTGCCTACGCA  
CTAGTCCCCGATAAACACCCCGACGACAACATTGTCCACGGGACGCTTGGGAACAAAAGAA  
GGCGACAGCCCTATCGAGCAGATCCGGCTGGTTCTTCTGGCAGGCTTAAAAGCTGCCGAG  
GAACACGGTCTCAGTGTGCGCCGCATCGGCATGGGCGCTCCTGGTGTAAATTCTGGGACCA  
GAGGGAACCATCGTGTACAACGGTGAAACCCTCACAGAGTGGGCAGGCACTGACCTGCGA  
GGATTATCCCGAGAAGTCCTCAACGTTCCATTTCGCGGCACACAATGATGTCCGCGTATGG  
GCCTACGGTGAGCACCCTTAGGCACCGGCAAAGACCTCACCGGCAGGGTACTCTACGTG  
TCCCTCGGCACTGGAGTGGGCGGAGCAATCATCGAAGACGGAATCATGATGAGTAGCCCC  
ACTGGAAGTGGGGGAGAATTCGAGAAAGTTGTGTGCTCTGACCATGCAGGATTAGCCGTT  
CGGTGCGAAAATGTAGCAAGTGGCACCAGGCTTAACCAGGTACTACAACGAGGCCGCGCA  
ACTCAACTTGACCTTCCCGCCATCATGGAGCGCTTCCACCAAGGTGACGGCTGGCACAG  
CAAATCATTACTGGAAATCTCCGAGGCTTTGGCCAAGCGCTAGGCGCATTAGTCACAGTG  
CTGGACCTTTCCGCAGTAGTAGTTGGAGGCGGAGTCGCAGGCATCGGCGCACCCGTCATG  
GATCCCATCACCGCAGGGATTTTCGATCGAGTGTTAACCCCCAACAAATCCGTACAAGTT  
TTAAGCACGTCCCTTGGTGCCCAAGCAGCCGTCATCGCAGCAGAAAATATGCCCCGCGAT  
AACGCCTTT

>RXN00045-downstream

TAAGCACCTAAAACGCTGTTCTC

>RXN00073-upstream

GAATCTAATGGTTGGTCTAGACAGAGCGGTACGTCTAAGTTTGCGGATAGATCAAACCGA  
GTGACATGTACTTCACTAGCTCTTTAAGGATTAACCTCCCC

>RXN00073

ATGACAACAACACCGGAAGTGCCCGGCCAGCACGTGCCGCCAGGAAGCCTAAGCCCGAA  
GGCCAATGGAATAATCGACGGCACCGAGCCGCTTAACCATGCCGAGGAAATTAAGCAAGAA  
GAACCCGCTTTTGCTGTCAAGCAGCGGGTCATTGATATTTACTCCAAGCAGGGTTTTTCT  
TCCATTGACCCGGATGACATTGCCCCACGCTTTAAGTGGTTGGGCATTTACACCCAGCGT  
AAGCAGGATCTGGGCGGTGAAGTACCGGTGAGCTTCCCTGATGATGAGCTGCAGGATGAG  
TACTTCATGATGCGTGTGCGTTTTGATGGCGGACTGGCTTCCCCTGAGCGCCTGCGTGCC  
GTGGGTGAAATTTCTAGGGATTATGCTCGTTCCACCGCGGACTTCACCGACCGCCAGAAC  
ATTGAGCTGCACTGGATTTCGTATTGAAGATGTGCCTGCGATCTGGGAGAAGCTAGAAACC  
GTCGGACTGTCCACCATGCTTGGTTGCGGTGACGTTCCACGTGTTATCTTGGGCTCCCCA  
GTTTTCTGGCGTAGCTGCTGAAGAGCTGATCGATGCCACCCCGGCTATCGATGCGATTTCGT  
GAGCGCTACCTAGACAAGGAAGAGTTCCACAACCTTCCTCGTAAGTTTAAGACTGCTATC  
ACTGGCAACCAGCGCCAGGATGTTACCCACGAAATCCAGGACGTTTCCTTCGTTTCCCTCG  
ATTACCCAGAAATTCGGCCAGGATTTGAGTGCTTTGTGGGCGGTGGCCTGTCCACCAAC  
CCAATGCTTGCTCAGCCACTTGGTTCTTGGAATCCACTTGATGAGGTTCCAGAAGTGTGG  
GCTGGCGTCGCCGGAATTTCCGCGACTACGGCTTCCGACGCTGCGTAACCGTGCTCGC  
CTCAAGTTCTTGGTGGCACAGTGGGGTATTGAGAAGTTCCGTGAAGTTCTTGAGACCGAA  
TACCTCGAGCGCAAGCTGATCGATGGCCAGTTGTTACCACCAACCCTGGCTACCGTGAC  
CACATTGGCATTCACCCACAAAAGGACGGCAAGTTCTACCTCGGTGTGAAGCCAACCGTT  
GGACACACCACCGGTGAGCAGCTCATTGCCATTGCTGATGTTGCAGAAAAGCACGGCATC  
ACCAGGATTCGTACCACGGCGGAAAAGGAAGTCTCTTCCTCGATATTGAGAGAAAGAAC  
CTTACTACCGTTGCACGCGACCTGGATGAAATCGGACTGTACTCTTCACCTTCCGAGTTC  
CGCCGCGGCATCATTTCTGCACCGGCTTGGAGTTCTGCAAGCTTGCGCACGCAACCACC  
AAGTCACGAGCAATTGAGCTTGTGACGAAGTGAAGAGCGCCTCGGCGATTTGGATGTT  
CCCATCAAGATTGCACTGAACGGTTGCCCTAACTCTTGTGCACGCACCCAGGTTTCCGAC  
ATCGGATTCAAGGGACAGACCGTCACTGATGCTGACGGCAACCGGTTGAAGGTTTCCAG  
GTTACCTGGGCGGTTCCATGAAGTTGGATCCAACTTCGGACGCAAGCTCAAGGGCCAC  
AAGGTTATTGCCGATGAAGTGGGAGAGTACGTCACTCGCGTTGTTACCCACTTCAAGGAA  
CAGCGCCACGAGGACGAGCACTTCCGCGATTGGGTCCAGCGGGCCGCTGAGGAAGATTTG  
GTG

>RXN00073-downstream

TGAGTCTTCGGAGGAAACCCAAT

>RXN00136-upstream

CAGTGTTCATCATCTAGAAATCGATTAATTAAACCGGGCACCTGATTAACATTGGGCTG  
CCCGGTTTCTTCTATTACAAGCGAAAGGCAACGTGCCCC

>RXN00136

ATGAGCGCAGTGCAGATTTTCAACACCGTCCACGTCAATGGATCTTCCCCCTATGATGTC  
CACATTGGTTCCGGCCTCAACGAGCTCATTGTTTCAGCGCGCAGCGGAATCAGGCGCGGAG  
CAGGTAGCGATTTTGCACCAGCCCAGCATGGATGACATTGCATCCGAGTTGGATGCAGCA  
CTAGTCGCTGCTGGTTTGAAGGTCCTGCACCTTAATGTTCCCGATGCGGAAAACGGCAAG  
TCCTTGGAAAGTAGCGGGGAGTGTGCGGATGAATTGGGTGGCGCAGCATTTCGGCCGCGC  
GATATCGTCATCGGACTTGGTGGCGGTGCTGCCACAGATCTCGCGGGATTTCGTCGCTGCT  
GCATGGATGCGTGGCGTGCGCGTCATTAGGTTCCAACCACCTTGTGGCCATGGTGGAC  
GCTGCGGTGGGCGGCAAGACTGGCATCAATACCGCCGAGGCAAGAACCTTGTGGGCGCG  
TTCCACGAGCCTGACGCAGTATTATTGACACCGATCGCCTAGCCACCCTGCCTGACGCG  
GAAATCATCGCGGGATCCGCCGAAATCATCAAACTGGTTTCATCGCCGACCCAGAAATC  
CTGCGCCTTTACGAAACTGATCCCGCAGCCTGCCTGAAGAAAGAAGTCGAAGGCTCCCAC  
CTACCTGAACTGATTTGGCGCTCCGTCACCGTCAAGGGCTCCGTGGTTCGGCCAAGACCTC  
AAAGAATCTAGCCTGCGCGAAATCCTCAACTACGGACACACCTTTGCCACGCGCTCGAA  
CTCCGGGAAAACCTCCGCTGGCGCCACGGCAATGCCGTTGCAGTGGGCATGATGTTTCATC  
GCCAACCTCTCCCAAGCTCGGGCTTATCGACGCGCCCTCCTCGAGCGCCACCGCTCA  
ATCCTGGCGGCCATCGGTCTGCCCACTTCTACGAAGGCGGAGCCTTCGACGAGCTTTAC  
GACGGTATGACCCGCGACAAGAAAACCGCGACGGCAACATCCGCTTCGTCGCACTGACC  
GCCGTGGGCGAGGTTACCCGCATTGAGGGGCCCTCAAAACAAGATTACAGAGTGCTTAT  
GAGGCAATCAGCCAC

>RXN00136-downstream

TAAGTGTTGAGTAATCTACTAGT

>RXN00177-upstream

CTATTCCACAGCAGTGGACGCTGAACAACCTTCAAACACAGATTAAGCAGCTATCGGATCT  
ACTTCACCTCAACTCAGTTGTTCGGAGCATAGGAGCTAAAA

>RXN00177

ATGTCTTTACAGTTCGATCATGAAACCCTCGGTCAACGAGTTCTGTTCGGTTCAGGTGAG  
GCGGCGCAAAATCTCGCCGCTGAAATTAGCCGACTCGATGCCAAAAACGTCATGGTGGTT  
GCCGGTGATTTTCGAGCTTCCCATGGCACGGCAAGTAGCAGCAGATATTGATGTCAAGGTG  
TGCCATTCAAATGTCGTGATGCATGTGCCCATCGAAACAGCAGAAGAAGCACGCAGTGTT  
GCGAAAGAAAACGACATTGATGTTGTGGTGTGTGTGGGCGGTGGATCCACAACAGGTCTA  
GCTAAAGCGATTGCCATGACCACCGCATTGCCGATCATTGCGGTACCCACTACTTATGCA  
GGTTCTGAAGCAACAAATGTGTGGGGATTGACCGAAGCCGCGCGCAAAACAACCTGGTGT  
GATAACAAAGTGCTGCCAGTGACAGTTATCTACGATTACGCGTTAACCATGTCTTTGCCG  
GTAGAAATGTGGTTGCTTCTGGTCTCAATGGTTTGGCTCACTGCATTGATTCTTTGTGG  
GGACCGAAGGCGGATCCCATCAATGCGGCTATGGCTGCTGAGGGGAATTCGAGCACTTTCT  
GCTGGCCTTCCCAAGATTGTGGCAGATGCTCAGGACGTAGATGGTCGCGATGAAGCGCTC  
TACGGTGCCCTACCTGGCTGCGGTGTCTTTGCCTCTGCTGGCTCTGGTCTCCACCACAAG  
ATCTGCCACGTGTTGGGTGGAACCTTTAACCTTCCACACGCGCAAACCCATGCAACAGTA  
CTGCCTTATGTTCTTGCCTTCAACGCGCCATATGCGCCACAGGCAGAACAACGCGCAGCG  
GCAGCTTTCGGTCTGCGACAGCACTTGAAGGATTGCAACAGCTGCGTGCCCAAGTGGGA  
GCACCACAGCGACTATCCGATTACGGATTACCGCAGCAGGAATCCCAGAGGCAGTGGAA  
ATCATCTTGAGAAAGTACCGGCGAATAATCCACGGACGGTCACAGAAGAAAACCTCACT  
GCGCTGCTTACCACAGCGCTCAACGGCGACGATCCAGCAACTTTGAAT

>RXN00177-downstream

TAAGGAGACCAACATGACTATTT

>RXN00178-upstream

GCGAATAATCCACGGACGGTCACAGAAGAAAACCTCACTGCGCTGCTTACCACAGCGCTC  
AACGGCGACGATCCAGCAACTTTGAATTAAGGAGACCAAC

>RXN00178

ATGACTATTTTCAGCACAAACAGCAAGCAGTGGGAAGAAGACCTTGTAGAGCGCGTACTCGCA  
TCTTTTGATTTCGTGTGAAAAACCTCGCCTCAAACCTAGTGATGAAATCCCTGACTGTGCAT  
CTCCATGATTTTCATCCGCGATGTTTCGACTCACTGAAGAAGAGTGGAACCTACGCCATTGAT  
TTCTTCACCAAGGTTGGGCATATCACCGACGATAAGCGCCAAGAATTTCGTGTTGCTCTCT  
GACACCTTGGGTGCATCCATGCAGACCATCGCTGTTAATAACGAAGCATATGAAGACGCT  
ACCGAAGCAACAGTCTTTGGCCCCCTTCTTTGTGCATGATGCGCCACTGGTCCAAAACGGA  
GATGACATTGCCTTTGGCGCAGTCGGCCAGCCGGCATGGGTGGAGGGAACGGTCAAAGAC  
ACTGAAGGAAACCCCATTTCCCAATGCACGCATTGAAGTATGGGAATGCGATGAAGATGGA  
CTTTATGATGTGCAATACGCCGATGAGCGCAGTGCTGGACGCGCACACCTGTATTTCAGAT  
GAAAACGGCGAATACCACTTCTGGGGACTAACTCCCGTGCCATATCCCATCCCACACGAT  
GGTCCAGTAGGACAAATGCTCCAAGCAGTTGGTCGTTCCCCCGTTCGTTGCGCGCACCTA  
CACTTCATGGTGACTGCGCCAGAGAAGCGAACCTTGGTAACCCATATCTTCGTTGAGGGC  
GATCCGCGAGCTAGAGATCGGCGATTCCGTGTTTGGCGTGAAGGACTCACTGATTAAAGAA  
TTCGTTGAGCAACCTGCAGGAACCGCAACTCCAGATGGTCGCGATGTGGGTGATCAAACC  
TGGGCACGCACACGTTTTGATATTGTGCTCGCCCCCGGCAATGTC

>RXN00178-downstream

TAAGTAGAAGCAGCAAAAAACCA

>RXN00249

ACCGGCGTCTCCACCTCCCAGGTTGTAGTTTTGCTTGTGCGACGCCCCGCCACGGCGTCGTC  
GAGCAGACCCGCGCCACCTGTCCGTATCGGCTCTGCTGGGCGTACGCACGGTGATCCTC  
GCAGTCAACAAAATTGACCTTGTGATTACAGCGAAGAAGTCTTCCGCAACATTGAAAAG  
GAATTTCGTTGGCCTGGCATCTGCACTTGATGTACAGACACCCACGTTGTTCCAATCTCT  
GCGCTCAAGGGCGACAACGTTGCAGAACCTTCCACCCACATGGATTGGTACACCGGACCA  
ACCGTGCTGGAAATCCTGGAAAACGTAGAAGTTTCCACGGCCGTGCACACGACCTGGGC  
TTCCGCTTCCCAATCCAGTACGTCATCCGCGAGCACGCCACCGACTACCGTGGCTACGCC  
GGCACCATCAACGCTGGTTCCGTCTCCGTGGGCGATACCGTGTACCTACCTGAAGGCCGC  
ACCACCCAGGTACCCACATCGATTCCGCTGACGGATCCCTCCAGACCGCATCAGTTGGA  
GAAGCCGTTGTCTTGCCTGCGCCTAGCCCAGGAAATCGACCTCATCCGCGGCGAACTCATCGCT  
GGCGAAGACCGCCGAGAATCCGTTTCGCTCCTTCAACGCCACTGTTGTTGGCTTGGCCGAT  
CGCACCATCAAACCCAGGTGCAGCAGTCAAGGTTTCGCTACGGCACCGAGCTGGTCCGCGGA  
CGCGTCGCAGCCATCGAACGAGTCTTCGACATCGACGGCGTCAACGACAACGAAGCACCA  
GAAACCTACGGCCTCAACGACATCGCACACGTGCGCATCGACGTTGCAGGCGAACTCGAA  
GTTGAAGATTACGCTGCCCGCGGCGCCATCGGATCCTTCTCCTCATCGACCAATCCTCC  
GGCGATACCTTCGAGCTGGCTTGGTTGGCCACCGCCTACGCAATAACTGGTCGATC

>RXN00249-downstream

TAGACCAGTGTCCTTAGGCAAGAC

>RXN00250-upstream

ACAACACCAGACCACCCCAACCCTGAATAAACCCCTATTTTTCTAAAAAGTCACACTTTG  
CCGTATAGAAATTTCAGTCAACCAAGAGTACTCTGTCCACC

>RXN00250

ATGGTTTTTACTCTTGCGGACTCCGTCTCCCAGGTTGCGCTAGGTCCGTCCTGGCTGGAC  
CCTATGGAACCTCTTTCCGGCTCCGGCCCCGTTCCGGTAGCTTCATTCTTCCGGCGATGCTT  
GCCATTGTCTTTATCGAATCAGGCCTACTTTTCCCACTTCTACCAGGTGATTCTCTCCTT  
TTCACCGGTGGTCTCCTAGCTAACCAAGGCTGACCCTTTTGCACCGCTGTGGCTGGTGCTG  
ATCCTCTGCCCTATCGCCGCAATTCTTGGCGATCAGGTGGGTACTGGATTGGCCACAAG  
TTCCACCCCTCGCCTGGTCAATCGTCCGGATGGCAGGATTTTCAAGCAGGAATACCTCAAG  
CAGACTGAGGATTTCTTTGAGAAGCATGGCCCCGTGACGATCATTTTGTGCCGTTTCGTG  
CCCATCGTCCGTACTTACGCACCTCTGGTTCGAGGTATGGCTGGCATGCGTTACCGCACG  
TTCATTATTTACAACATGATCGGTGGCATTTCGTTGGGGTTCCGGCGTGGTGGCTTTGGGT  
GCTGCGTTGGGTGAGTTCGATTTTCGTCCGCAACAATATTGATCTGATTTTCTTGCTGATC  
GTGTTTCATTTCCGTGGTTTCCTGGTTTGGTTCGGCATGGCCCCGAAGCTGGCTGACGGCCAC  
AAGCAAGCCAACACCGAGCCACAAGAAAACCCCGCAGTCCAGACAGCCCCAGTAAAAACC  
CAGGAAGCCCAGGAAGCCCCCAGAAC

>RXN00250-downstream  
TAATCTTTCCGGTCCGCCAGTTC

>RXN00299-upstream  
TGCCATCGGTTTGGCTATTGATTGGAACAAGAAAGGTGCCAGTCTGTTGCAAAGAAGGA  
ATCCATTTCCGTCTAATCGCTAATTGCGAGGAGTCTTTGC

>RXN00299  
ATGTCTATCCCACTTTCACTGATTGATTTTGGCCACCATTTTTGAGGGCGAAAGGCCTGGT  
GACAGCTTCAAACGATCAGTGGCATTGGCGCAAAAAGCTGAAGGTTTAGGCTTCAAGCGC  
ATTTGGTACGCAGAGCATCACAACATGGAGAGCATTTCTTCAGCTGCTCCTGCAGTGCTT  
ATTTCTCACATCGGTGCGAACACCAAGACTATTCGTCTGGGTGCCGGCGGGCGTCATGCTG  
CCCAACCACTCCCATATGTCATCGCTGAGCAGTTCGGCACCTTGGCGGAGTTGTACCCA  
GACCGCATCGACCTCGGCCTGGGCCGTGCCCTGGCACGGACATGAATACCTTGC GCGCT  
TTACGACGCGACCCCTCAGTCCGCCGAGAACTTCCCGTCCGACGTTGTCGAGCTGAACCTCT  
TACCTCACCGGCCGTTCCCGTCTCCCGAGGGGTTAACGCAATTCCAGGCAAGGGCACCAAC  
GTACCGCTGTACATCTTGGGTTTATCCCTCTTTGGTGCACAATTGGCAGCACAGTTGGGT  
ATGCCTTATTCCTTCGCATCCCACTTCGCACCAACTCACCTTGAGCACGCGGTGCAAACC  
TACCGGGATAACTACCAGCCTTCAGAGCAGCATCCTGAGCCTTATGTCATTGCGGCCGTC  
AATGTCACCGCATCTGATTCCACTGAACAAGCCACGATGATTTCTACAAGGTAGCGCGT  
GCACGCGTGAAGAACATGGCATTGCGTGGCCGACAAGTTACTGATGAGCAACTTGATGAA  
CTCATGGATTACACAGCTGCTCGCCAAATTGTCGACATGCTTCACTACACCGCTATAGGC  
ACTGGATCCGAAGTTAAAGAATACCTAGACGGTTTTGTAAAGACGGCACAGGCTGATGAA  
CTGATGATCTCCCTGCAATCCCCCAACACTGAAGCAACCACGCGCAATATGGAAATCTT  
CGGATGCGTGGATTAAT

>RXN00299-downstream  
TAGTACCGATGGGCCGGTAGACA

>RXN00343-upstream  
TTCGGTAGAATGGGTAGGTTGTCGTGCTTGAGGTGTGGTGGATAACCACCTCTACAACAC  
CACCAAGCTCTGTTAGAAAAAATTGAGGAAGCAGTCTAA

>RXN00343  
ATGAAACACCAATATGATGTCATCGTTGTCGGTTCCGGCGCTGGCGGATTATCAGCTGCA  
GTCAGTGCAGCTTACGGCGGTAAGAAAGTCGCTGTAATTGAAAAGGCCTCAGTACTCGGT  
GGAGCCACCACCTGGTCCGGCGGTTGGGCTTGGACTCCTGGAACCAGCCTTGCGCGCAAA  
GACGGAGTAGTGGAATCCAAAGAAGAATTCCAAACCTACCTGCAAGCGGTAGTGGGGGAG  
TACTACCAAGAAGACAACATCTCCGCCTTCTTGGACGCAGCCCCCTGAAATGGTTCGATTT  
TTTGAAAAAACACCGACCTGCAGTGGACCCCCGGCGCGAAAAATCAACGACATCTACGGC  
AACCTCCCCGGTGTGTCAGTGGACACCGCTCCGTTGGGCCAAAACCAATTCAACGGACGC  
AAAGTACCCAAGAGTGTCTTCCAAAACTGCGCCACCAGCTGTATGAAACCTCCTTCCTG  
GGAATGGGCATCATGGCTGGGCCTGACCTGACGAAATTCTCTCTGCTTCACAGTTCGAT  
CCACGTGGTTGGGTACATGCCGCCAGGCGCGTCATCGTGACATGTGGGACATGGTCGTG  
CACAAACGCAATATGCAGATGGTCAACGGTGCAGCACTACCGCTCGACTGGCTACCTCT  
GCAGACAAGCTGGGCGTTGATCTCCTGGTCAATCACTCCGCAGTGTGTTGAATTACAAA  
AACGACCGCGTTACCGGCGTGAAAGTACAAACCCACAGGGCTTGGTAGATTTTGAAGCC  
ACTGCCGGCGTGTGCTCGCCACTGGTGGATTCCCCAACACGTTGACCTGCGCAAGGAA  
CTCTTCCCACGCACCCCATCAGGTCAAGAACACTGGACCTCGCGCCAGCAGAAACCACC  
GGCGACGGACTATCCATGGCTCGGGAATCGGTGCAGGTTTTGTCAACGACCTGAAATCC  
CCAGCAGCATGGTGCCCTGTTTCATTGGTCCCATACTTCAACGGAAAAGTCGGCACCTTC  
CCCCACATCATGGACCGCGCAAAACAGGCTCCATCGGTGTTGTCTCCACAGGTAAGCGA  
TTCGTCAATGAAGCCAACGGCTACTACGACTAC

>RXN00393-upstream  
TCTATTCATTTCACAATAGCGTTTCACACTCCCCCATAGCCTGCCGAACGTATTTCAAGC  
AATTGCGCGATCGAGTATGTGATGGGGAAAGATAGAGGTT

>RXN00393  
ATGTCTCACACGGAACCCAGCCGAATTCTGTAACCTTGTCCGATTGGATTCAAGGCGCA



CGCCCGGTACCTGGGCAAATGCGTTCGCGCCTGTCATTGCCGGTTCAGGTGTCGCCGCT  
 TTTCATGATGGTTTTGTGTGGTGGGAAGGCCCTTGCTGGCGCTTGCTGTCGCCGTGGGCTTG  
 ATCATCGGTGTGAATTACGCCAATGATTACTCTGATGGCATTCTGTCGCCACCGATGAAGAC  
 CGCACCGGTCTCTGCGACTCACTGGTTCTGGGTGGCTGAGCCGAAGAAAGTGAAAGCT  
 GCGGCGTTTTATTTCTTTTCGGTATCGCAGGTGTCGCCGGCACCGCGCTGAGCCTGTTGAGC  
 GCGTGGTGGCTGATCCTCATCGGCATCCTGTGTGTGCTGGGCGCGTGGTTCTACACCGGC  
 GGTAAAAATCCTTATGGTTACCGCGGGCTCGGCGAGATTGCTGTGTTTCTCTTCGGC  
 CTCGTCGCGGTTCATGGGAACGCAGTTCACCCAAACCGGTTCCGTGAGCTGGGCGGGTTTG  
 GCCGCCGAGTTGGCGTGGGGTCGATGTCTGCTGGCGTGAACCTGGCCAACAATATTCGC  
 GATATTCCAACCGATAGCAAGACCGGAAAAATTACCCTCGCGGTCCGCTGGGCGATGCG  
 GGTGCTCGTAAGCTGTTTCTCGCGCTGATTTCCACGCCGTTTCATCATGTCCATCTGCCTG  
 GCGTTTGTGCGCTGGCCAGCGCTGATCGCGATCATCGTTTTCCCGCTGGCACTGAAAGCC  
 GCAGGGCCGATCCGCAACAACGCCACCGGCAAGGATCTCATCCCGTCATCGGCTCAACA  
 GGGCGCGCCATGGCGTTGTGGGCCGTGCTCACGGGCCTGGCATTAGCGTTTAGC

>RXN00393-downstream  
 TAAAACGCTTTTCGACGCTCCCC

>RXN00397-upstream  
 TTTTTCGAGGTTGGGGTGGCTTTTCGGGTGGCGTGTATGTATTAAACCAAGGAGCTTGTT  
 TGAGGGGAGCGCTTGTTTTCGACAGTTTTTCGGCA

>RXN00397  
 TTGAGCCTGACGGAAGGGGAGATCATTTCCCATCCAAACAAAGCTCGGCCACTGGCGTGAC  
 GTGCGGGATTCCGAAGATCTGCCATTTCCAAGTAATCGCATCGCGCACCAACGTGACCATT  
 ATGGAAAACACCCTGGAATGGACCAACAGCCGCTTGAGCGTGGCGAAGAGTTCACCGAG  
 CTCGACATTTATGCTCACTACTTGGAAGAGTTGGAAGATTACGCCCTCCAATTCACCTTC  
 GATGTCGAGCCCTACTTCACCAACCTGCACTCCTCCAACAGAATGCTCTTCCCTGGACCT  
 CCTGTGGATTTCCCGATCAACGCAGAAACCCGATGCATTTCAGCTCGACGCCGGTGTGCA  
 GTAAAGAAGGACGGCGTGGTGTGGGTACCTCAGATATGGCGAGGTCCCTGCCTCGAACC  
 GCCGCTGGCCAAGAAGCCTATGAGTACTTCTTCAAGGTGGTTCTGTAAGGCATCATCGGG  
 CAGCTGCGCCCGGGCGTGATCTGCGCTGACGTGCACGAAGCAACCCTTGATTACCTAAGC  
 CCGCAGCTACCTCGCATGATTGACATCGGAATGCTGGGTGCCGACACCGATTTCAACACC  
 ATCTACCGCAAGCGCAATGTTGGCCACCTCATGGGCAAGCAGGAATCCTTTGCCAATGAG  
 CTTGCGCCTGGATACAAGCACATTCTTACCACGGCTCCTATGGTGCCGCGGAGATCCCT  
 TGGCGCTACAACGGTGTAGCCATTGGTACCGAGGATCTGTGGTACATCGGCGCAGACAAG  
 ACCTACATTTTGAGCCAGCGC

>RXN00397-downstream  
 TAAGGAGAACCCAGTGACAGAAA

>RXN00398-upstream  
 TGAGTTCGCCACCATCAGCACCGGCACCCACCAGCGCGGTGTGGTTAACCGTGAGAAGTT  
 TGTCTCCCGTCTGCCTGAAGCACCTAAGGAAAATAATC

>RXN00398  
 ATGGCCAAGTTGTTTGATTCCCATTTCCATATCATCGATCCCCAGCACCCACTGATCGAA  
 AACAAACGGCTACCTCCCCGAGCCTTTACCGTGGAGGATTACACTGCGCGTGTGAAGGC  
 CTCGAAGTTGCTGCCGGAGCGATTGTTTCCGGTTCTTTCCAGGCTTTGACCAGGGCTAC  
 CTCAAAGATGCTCTCGCAGTGCTTGGCCCAGGCTATGTCGGTGTCACTCAGATCCCCGCA  
 GATACCTCTGATCAGGAGATTCTTGATCTGGACAAAGCTGGCGTGAAGGCTGTGCGTTTA  
 AACTTGAAGCGCGGTGGTTCGGCAGGTCTTGACGATCTCGAGACCTTGGCACGCCGAGTC  
 CACGACCTAGCCGGTTGGCACACCGAACTCTATGTGGATGCTCGCGAACTAGACGAGTTG  
 GAATCAACCTTGGCCTCCCTCCCTGCTGTGATGATCACTTAGGGCTCCACCGCGAT  
 GGACTTCCCGCACTTCTTCGCTTGGTAGAAAATGGCATTAAAGTCAAAGCAACCGGATTC  
 GGACGGGTAGAACTAGATCCAACCTGAAGTCATCCAGGCAATCATGGCTGTGATCCCACT  
 GCTTTGATGATCGGAACTGATCTTCCATCCACCCGCACTAAGCGACCTTTCGAAGACGCT  
 GACCTAGATTTGATCGCTGAAACGGTTGGCGAAGATCATGTGACAACGTCTTCTGGAAC  
 AACGCTGCAGCGTTCTACCTCGGAGACCAG

>RXN00398-downstream  
TAGTTTTAAGACCCGAAATGTCT

>RXN00434-upstream  
CCACGCGCCAAACCATGCAAGCCATCGTCCAACTGAGGAGAAGGTCACTGCTTCTCTGG  
AATTACAGGAAGTCCCCGTCCCGACCCTGAAGCCAGGTAG

>RXN00434  
GTGCTGGTGAAGGTGAAGCCTGCGGGCGTTAACCGTGCGGATCTTTTGCAGACGCAGGGA  
AATTATCCTGTGCCGGCGGGGGCTTCGGAGATTCTCGGGCTGGAATGTGCGGGTGTGATC  
GTGAATGCCGGCGACACTGGGCAAACAGTGGGTCAGGAAGTCGCTTGCCCTTCTCACTGGC  
GGTGGATATGCGCAATATGTGGCGGTTCCGGAAGGTCAGTTGATGCCAATTCCAGAGGGT  
TACAGCTTTGTGGAAGCGGCCTCGATCGTGGAGGTTGCGTGCACGGTGTGGTGAATATC  
GGCATGCTGGCGGGCTTGAGAAGGAGGATACTTTCCTTATTCATGGTGGCGGGGCGGT  
ATCGGAACGTTTGCCATTTCAGATGGGCAAGGCTCTGGGTGTGACGGTTGCGGTGACTGCC  
GGTTCAACTGAAAAGTTAAAAACCTGTAAGAACTTAGGGGCCGATATCCTCATCAATTAC  
AAGGAGGAAGATTTGCGCCGAGGTTTGAAGAACAAGGCGGATGTCATTCTCGATATTATT  
GGTGCGAAGTATTTGTACAGAATGTGAAGGCGATGGCCAAGGACGCGCACATGGTAGTC  
ATCGGGATGCAGGGTGGCGTGAAAGGGGAGCTGAATTTGGGTGATCTTTTGGCCAAGCGA  
GGCAGGATTTCTGCCACTGCGCTGCGTGGTTCGCGATGAGGCGGATAAGGCTCGGATTGTC  
AGCAGCACTGTGAAAAATATTTGGCCGCTGCTGCAATCGAAGGAAATTACCCCTCACATC  
GACCACACCTTGCCGCTAGCCGAAGCAGCGCCGCTTGCGAAGAAATTCAAGACGGCACC  
ATCACCGGCAAGCTCGTGCTTGCGGTT

>RXN00434-downstream  
TAGGCAAGCGATGCCAGCACCCCT

>RXN00470-upstream  
TCATAACCAGGTTGGGCAAAAGGGATGAATCCCTGTTGTGGTGGGGCTCCTGAAAAGTA  
CTCATAGACTCTATTGTGGAGTGTTGAGGCTGATAAGTGA

>RXN00470  
ATGGGGGAAAGCCCTGAAAAGGTGGCGTTCAGGGTCTTCCCTGATGGTTTGGTGTGCGAG  
GGGCATGACATGATCGAAGATATGAGTAACACACCTGCGCCTTATACCCCGCAGCCTGCG  
GGGCAAGCGGTGCCTTTATATCCCACGTTTACCCGGTCAAGACATGGTCGGGTGTGTCG  
GGTGTGCGATCGGGGCTGGCAAAGCATCTTAATGTGTGCGGTGTTTTGGGTTCGTGCGCTG  
CTGATTTTTGCGGCGTTGCTGAGCGGTGCGGGTCTTTTTGCGTATGCCTTGATTGGAAT  
TTTACGCGCATTTGAGAAAAAGGGAGTGGGGAGGCGTCGACAAGCAAGCGCTGGGTGTCG  
TGGTGCCTGGTGCTGCTCGCTATCGGTGGTGCTGCGGCGTGGTGATGCTGAGCACCGGC  
TTCGCGGTGGGCACGTTGGTGCCCATCGGCGTGGTGGTGTTGGGCTGTTGATGGTGTGG  
CTGGCGTATGACCGCGGGGTGGAATCCGGCCCGAATCTGCTGATTATTGCCACCGGCGGT  
GTGTTGATGCTGGTGGCGATCGTGCTGATCGTGATGAATTGGAACACCCAGGACGGCTTC  
GTCATGGCGCTGGTGGCCGTGGTGCTCACGCTGGTGGGTGTGGCTGCGCTGGGCGTTCCG  
CTGTGGGTGCGGATGTGGGATCAGCTGGGCGAGGAGCGCGCGGAAAAAGCCGACGTGCT  
GAGCGCGCAGATATTGCTTCCCGCTGCATGATTGCGTACTGCAGACCTTGGCGCTGATT  
CAAAAGCGTGCCGACGACCCCGCCGAAGTCGCGCGCTGGCCCGCGGGCAGGAACGCGAG  
CTGCGTCAATGGCTGTTTGATTCCCAAGATAAAACACCTCAAACAACCGGCACTGTCTTT  
ACTGCGTTGGAGCGCGCTGCGGTGAAGTCGAGGATATTTACGCTCTGCGTATCGTGCTT  
GTGACCGTGGGAACCGATGAAGCGCTGACTGAGAAAACGCAGGCAGCGGTGATGGCAGTC  
CGCGAAGCACTCGTGAACGTGGCCAAGCATGCCGGCGTGGAAACCGCCGATGTGTACGCC  
GAAATTATGCTCGGCGAACTGAACATTTTCGTCCGCGACCGCGGTGCAGGATTCGACCCC  
GACAACATCCCCGACGGGCACCGGGCTCGCCGAATCCGTCCAAGGCCGCGTCGAACGA  
GCCGGCGGAAAAGTACGCATCAAATCTGAAATCGGCGAAGGCACCGAAGTGGCAATCACC  
ATGGATGTG

>RXN00470-downstream  
TAGTTGGTTCGTACGCGCGTGCT

>RXN00499-upstream

TGCCAACAGGGGATATGCCACTGTGTACCCACGGCGATGATCGGTAAAATCCTCGGCGC  
GCAGATATTGTTCTTGCTGCTCTAAGGTGATTTTGGGCA

>RXN00499

GTGGTGGGGGTGGTGTCCACCCCTGCGCGTAACCTGGGAAGCATGACTAAAACACTTGGT  
TCCCTTCAGCTGGAAGAAATCACGCTGACCCTCCCTCTGACTGAAGATGTGGCCGATGAA  
CGCACCATTGATGTGTTTCGCACGCATTGCCACACGCGTCGGTGGGGAAGACCTTCCATAT  
TTAGTATTCCCTGCAGGGTGGGCCTGGCAATGAAGCTCCACGTCCAAGCCTTAATCCCCTC  
AACCCCAATTGGTTGGGCGTGGCCTTGGAGGAATACCGCGTGGTCATGTTGGATCAACGT  
GGCACC GGCCGTTCACCCCACTGGGTAATGATATTTTGGAAAAACCCACAGCAGAAGTA  
GTGGAGTACTTATCCCACCTGCGCGCAGATGGCATTGTGCGAGATGCTGAAGCCCTGCGT  
AAGCATTTGGGTGTGAATCAGTGGAACTTTTAGGCCAGTCCTTCGGAGGTTTCACCACC  
CTGCATTACTTGTCCCGGCACGCCGATTCCCTTGGACAACGTGTTTATTACCGGCGGTCTC  
AGCGCTATTGATCGCCAGCAGAAGACGTGTATGCCAACTGTTACAACCGCATGCGCCGA  
AACTCTGAGGAATTCTACCGTCGCTTCCCGCAATTACGGGAACTTTCCGAGGGTTGGTT  
AATCGTGCTCGCGCCGGGAGATTGTGCTTCCCACCGCGCAAGTTGTGTGAGAAACCAGG  
CTGCGATCCCTTGGTCACTTGTGGGTAGCAATGACGGCTGGTTTGATCTGTACAACCTG  
CTGGAATTAGATCCACCTCCAACGCTTTTGTCCATGACCTGGCAGGACTTTTGCCTTTC  
GGCAACCGCAACCCAAATTTATTACGTGCTCCATGAGTCCTCTTACGCCGACGGTGTGGTG  
ACAAATTGGGCAGCAGAGCGTGTGCTTCCAGAGGATTTCCGCGAGGATCCAACACTGCTC  
ACCGGTGAGCACGTGTTCCAGGAGTGGACAGACACCGTGCCGTCGCTCAAGCCGTGGAAG  
GACGTGCCCCTGGCATTGGCTCAGCAGGAATGGCCCAAGCTTTATGATGCGAAGGCATTG  
GAAAACCTCACAGGCCAAGGGCGCTGACGAGTGTATGCCAATGACGTTTTTCGTCCAGTG  
GATTACTCTCTGGAACCGCACAAACACCTGCCCGGTGTGCAGCTGTTTATCACCAGCCAG  
CATGAACACAATGGACTTCGTGCCAGCTCAGGCGCAGTACTGAAGCACCTTTTCGATCTG  
GCCACGGCCGAGAGGTACGC

>RXN00499-downstream

TGATTCTCTGTTAGTACTAGC

>RXN00513-upstream

CACAGCGTACGCACGAGCTTGAGGATCTTTCAGAACTCAACATTGAATTGGATGCCGATA  
TTTTGGCCAAGGCTCCTGTGATTCCGGAAGGACTGTTCTG

>RXN00513

ATGGCGGGTTTGTTCCTCTGCTGTTGCACCAACGGAGCGTCGAAAAGCATTACGCGCG  
GCACTGGCTGCGCCTGAAATTGCCCGCATGCCTGGTGCATTCTCCCCGCTGGCGGGCGCGC  
GCAATCCAGGAAGCCGGATTTGAAGGCGGTACGTCTCGGGCGCCGTGCTGGCGGCTGAC  
CTTGCAATTGCCGATATCGGCTTGACCACATTGACCGAAGTGGCGCACCGCTCCCGGCAG  
ATCGCACGCGTGACAGACTTGCCCGTGTGCTGACGCGGACACCGGCTTCGGCGAACCC  
ATGTCCGCAGCGCGCACCGTCTCCGAACTCGAAGATGCAGGTGTGCGGGGCTGCCACCTG  
GAAGATCAAGTCAACCCCAAACGCTGTGGGCACCTGGACGGAAGAAGTAGTGGGCACG  
GACATCATGGTTCTGTCGATCGCCGAGCTGTCAACGAGCGTCGCGATGAGCAATTCTGTC  
ATCTGCGCTCGCACCGACGCCGCGGGAGTGGAAGGCATCGACTCCGCGATCGAGCGCGCC  
AAAGCTTACGCGGATGCCGGCGCCGACATGATCTTACCAGAAGCGCTGTACAGCCCTGCA  
GATTTTGAAAAATTCCGCGCGGGCGCTCGACATTCCGCTGCTGGCCAACATGACGGAATTT  
GGCAAAACCGAACTTCTGCCCCGCGCAGCTTCTGGAAGACATCGGATACAACGCAGTGATC  
TACCCAGTGACCCCTGCTGCGCATTGCGATGGGACAGGTGCAACAAGCTCTCGGCGACATT  
GCAAAACACCGGAATCCAAACCGACTGGGTGACCGGATGCAACACCGATCCAGGCTGTAT  
GAGCTGCTGCGCTACAACGAGTACAACGCTTTGACCAGCAAGTATTACCTATTCCGCT  
GACAGCTACAAGCCCATCTTC

>RXN00513-downstream

TAACCCGCCTATATATAAGGAGT

>RXN00531-upstream

GCCTGCGGGAATCGGCACCTTTCAGGATAGGACAACCTAATATAAATAAGCTTAGGCTAAG  
GGCCGGTGACAATTTATCAAGCAGTGCTATAATAGGGGTC

>RXN00531

ATGGCAAACATACACAGTCCCTGGAATCAACGAGAATGACGCAAAGCAGCTTATTGATGGA  
CTGCAGGAGCGTCTCACCGACTACAACGATCTTCACCTCATCTTGAAGCACGTGCACTGG  
AACGTCACTGGCCCCAACTTCATTGCTGTTACGAAATGCTCGACCCACAGGTTGACCTT  
GTTCTGGCTATGCTGACGAAGTTGCAGAGCGCATTTTCACCCTCGGAGGCGCACCAGTT  
GGAACCCCAAGAAGGCCACGTTGCTGACCGCACCCCACTGCAATATGAGCGCAATGCCGGA  
AATGTCCAAGCACACCTCACTGACCTCAATCGCGTGTACACCCAAGTCTGACCGGAGTT  
CGCGAGTCCATGGCATCAGCCGGCCAGTGGATCCAGTAACTGAAGACATCTACATCAGC  
CAGGCCGCGGAGCTGGAGAAATTCCAGTGGTTCATCCGCGCACACATTGTTGATGTAGAC  
GGAAACATCCAAGAG

>RXN00531-downstream

TAAAACGTCGAAAAGCGTTAAGG

>RXN00549-upstream

AAAGAGCAGCGGCAAAAGGCGCTTAAAGAGCGACTCTAAGGGCTACGCTGTAAGAAACAC  
CATCATTGGTGCCATTGTTGCTGTCATTTTGATTCCAGTA

>RXN00549

ATGGTCTTTCATGGGTGCTTACATCATGGTTGATGTTCCAGAACCGGAAGAGTTGGTTTCA  
CCCCAGGTTTCGAGATTTACGCATCTGACGGTGAGACTGAATTGGCACGCATCGTTCCCT  
CCAGAAGGCAACCGCCAGATGGTGACGATCGATCAGGTGCCTGACACTGTGAAAAATGCG  
GTGGTGGCTGCGGAAGACCGAGAGTTTTACACAAACCCCGGTTTTTCCATTACTGGCTAT  
GCCCCGAGCAGCACTTGGCGTAATCACTGGTGATTCTTCAGCGGGTGGTGGTTCCACCATT  
ACTCAGCAGTATGTGAAGAAGGCTGTGGTTGGTGATGAGCGTTCGCTGATCCGTAAGGCT  
AAGGAATTGGTCTATTCCGCGAAGATGGCCAATGAGTGGTCTAAGGACGAGGTCCTTGAG  
GCTTATCTCAACACTGTGTACTTCGGTCGAAATGCCTATGGTGTGCAGGCTGCAGCTCAT  
GCATTCTTTGATAAGCCAGTAGAAGAGCTCACGGCTGCTGAGGGCGCAGTGCTGGCGGCC  
AGTATTCACTGCGCAAGCCAGTTGGATCCTTGGACAAATCCAGTTGAGGCGGAAACGCGT  
TGGAACATATGTCACTGGACGGCCTGGTGGAATTTGGCGCTATCTCGGCAGAGGAGCGCGCA  
GTTGCTACCTACCCTGAAACCACTGACCCTGCGTCCAACAGTGCGTACACCGAAGCCACC  
GGCACTAATGGTTTTGATTAAGAACCAAGTGATGGCGGAGTTGTCTGAGCTTGGTATCACT  
GAGGATGATGTGCAAACCTGTGGTTTGAGGTCAACCACCACCATGATCCAAAGACTCAG  
GAAGGTGCCGTTGAAGCGGTACAAAACAGTTGGATCTTCTGTCTGAGAACAACCGTGCA  
GCGGTAGTCTCCATTGATCCTTCTAATGGTGCGGTTCTGTGCTTATTACGGCGGCGAGAAT  
GCGACTGGTTGGGACTTTGCAAACGCTCCGCTTCAGACCGGTTCTACATTCAAGATCTTT  
GGTCTGGCAGCAGCACTTCAGCAAGGTATTCCACTGTCTCAGCCATACAGCTCTGCGCCG  
GTGACTGTGGGTGATGCTCAAATCGGAAACGTCGGTGGCAGCGGTTGTGGTTCCCTGTTCC  
ATCGAGCAGGCGTTGTTGCATTCTTACAACACAGCTTCATTCTGTTGTCAGCAGGATCTG  
GAAAATGGTTTCACAGGATACTGCGGACATGGCGCATGCTTTGGGTATCGCGAAGTCTTTG  
CCAATATCCCTGAGACACTGACTGAAAACGGAGAGACCCCTTATGAGGGCATCATCTTG  
GGTCAGTATGAGTCCCGCCCACTTGATATGGCTTCTGCGATGGCAACTATCGCTAATGAA  
GGTGTCTGGCACCGCCCGCACTTCGTGTCCAAGGTGGAGACTGTCAGCGGTGAGGTTCTC  
TACGAGTTCGAGGATGGCGACGGCGAGCGTCTGTTTCTGAAAAGGTTGCACTGAATCTG  
CTCAAGGCCATGGGGCCAATCGCTGCATACTCCAACGGAAACGCTCTGGCTGATGGCCAG  
GTTTCTGCATCCAAGACTGGTACCCTCAGCTTGGTGATACCGGTGCAAACAAGGATGCG  
TGGATGTTGGGTGCGGCACCTCAGCTAGCTACTGCGGTGTGGGTGCGAAGTGT

>RXN00549-downstream

TGATAACACTGCATTGTATAACA

>RXN00550-upstream

AAGGATGCGTGATGTTGGGTGCGGCACCTCAGCTAGCTACTGCGGTGTGGGTGCGAACT  
GCTTGATAACACTGCATTGTATAACACCTGGGGTGGCAGT

>RXN00550

ATGTATGGTTCTAACTCCCCTGCCACGATCTGGAAGCAGACCATGGATAACGCCCTCGAG  
AACTCCCCTCTCGAAACTTGGGATATCGCTCCAGCATTTGGGGTACGGTAACCCACCAGTT

CCGGAATATGTGTGGACTCCAAGTCCAAACATCGCGACTAATGATCCAGAAGGAGCAACC  
 GAGGAAGCTCCAGTGGAGGATCCAAATGCAGTAATCGATACCCCTGCTGTAGATCCCCT  
 GCACCTGCAGAGGAGACCGGTAACGGTCAGGTAGAAATCCTGCCGGGGCTGACTATCCCC  
 GGAGATCTCTTAGGGATCGGC

>RXN00550-downstream  
 TAAATCCGGTCGTAGCCTAAAC

>RXN00621-upstream  
 AAATGAATCCGGTTTTTCAGTTTTCGGGGTGCAAATCAGAATGTGCCAATGGCGAACAC  
 ACGAGCGTGCAGAAGATGTGCGTGAATAAGATCGGGGGCT

>RXN00621  
 ATGTCTGAACGCCTAAACGCTCCGCAAGCACCAATCCATCCCATCACCCGAACCCACCAC  
 GGTATTGATTTTCGTAGACAACCTATGAATGGCTGAGGGATAAAGAATCCCAAGAAACCTTG  
 GACTACCTGGAGGCGGAGAATGCGTTCACCAAGCAGGAGACTGAACAGCTAGCCACACTG  
 CGGGACAACATCTATGAAGAGATTAAGTCACGCGTTAAAGAAACCGACATGTCCATCCCA  
 GTGCGTGCCGAAAGCACTGGTATTACTCTCGCACTGAAGAAGGCAAGAGCTACGGCTAT  
 TCCTGCCGATTCCAGTGACTGAAGGGTCGGATGCATGGACCCCTCCTGTTATCCCTGAG  
 GGTGAGCCAGCGCAGGGTGAAACCATCATCATGGATGCCAACGAGTTGGCAGAAGGCCAC  
 GAATTCTTCTCCATGGGTGCATCATCTGTCAACACCTCTGGCCGCTACCTTGCGTATTCC  
 ACCGATGTCACGGGCGAAGAGCGCTTTACGTTGCGCATCAAGGATCTAGAACTGGCGAG  
 CTGCTTCTTGATACCCCTGACTGGCATTCTTCTACGGTGCTACTTGGGTGGGGGAGGAGTAC  
 CTCTTTTACCAGCGCGTTGATGATGCGTGGCGTCCAGATACTGTGTGGCGCCACAAGGTG  
 GGTACCCCGGTTGAAGAAGACGTGTTGGTGTACCACGAGCCTGATGAACGTTATTCCACC  
 TGGGTGGGCACCACTCGTTTCAGAAAAAGTTCATCCTTTTTGGTTGCGCCTCCAAGATCAC  
 CTC

>RXN00621-downstream  
 TGAAGTACGCGTGCTTCCTTTTCG

>RXN00622-upstream  
 TTTTACCAGCGCGTTGATGATGCGTGGCGTCCAGATACTGTGTGGCGCCACAAGGTGGGT  
 ACCCCGGTTGAAGAAGACGTGTTGGTGTACCACGAGCCTG

>RXN00622  
 ATGAACGTTATTCCACCTGGGTGGGCACCACTCGTTTCAGAAAAAGTTCATCCTTTTTTGGT  
 TGGCGCTCCAAGATCACCTCTGAAGTACGCGTGCTTCCTTTTCGACCAGCCAGAGGGCACC  
 CCTGAGGTGCTGATTCCGCGCGCGGAGGGTGTGGAATACGACGTCGATCATGCAGTCGTA  
 GACGGCTCCGATATTTGGTTGGTCACACACAACGCCGAGGGCCCGAACTTTTCGGTGGGG  
 TGGGCTGGCGTCGACAAGCTCAATTCTTTGGACGCGCTGGCGCCACTCGTCGCGCACAAG  
 GATGACGTGCGCATTGAGGGTGTGATACCTACCGCGATTTTCATCATCCTGGGCTACAGG  
 TCCGGCGCGATCGGCCAGGTGCGGATCATGAAGCTTATCGACGGAACCTTCGGCGATTTTC  
 CAACAGCTGGAATTTGACGAGGAAATCTACACCGTCGCATCGGGCGGAAACCCAGAATGG  
 GACGCCCCCGTCATTTCGCCTTTCTTACGGATCATTACCAACCCGCGCAGCTGTTTAAC  
 TACTGGATTGAATCCGGCGAACGCACGCTGCTGAAGCAGCAGGAAGTGCTCGGCGGATAC  
 AAGCCGTCAGACTATGTGGCCTCCCGATTGTGGGTCACTGCGAAAGATGGCGCGCAGATT  
 CCAGTGTCTTGGTGCACCGCACCGACCTGGATGTATCCAAGCCCAACCCACGTTGCTC  
 TACGGCTATGGTTCTTACGAATCATCCATTGATCCAGGCTTCTCTATCGCGCGTTTGTC  
 CTGATGGATCGTGGCATGATTTTTGCGATTGCCACGTTCTGTGGCGGTGGCGAAATGGGT  
 CGTGGCTGGTACGACAACGGCAAAACCAACCGAAGAAAAACACCTTCACCGACTTCATT  
 GATGTTGCCGACGCCCTCATCGAGCAGAAGATTTCTGCCCCTGAAATGCTGGTTGCAGAA  
 GGCGGCTCAGCTGGTGGCATGCTCATGGGCGCCATTGCCAACATGGCCGGTGACCGCTTC  
 AAGGCGATCGAAGCCAACGTGCCATTCTGTCGATCCGCTGACCTCTATGCTCATGCCGAA  
 CTGCCACTGACGGTTATCGAATGGGATGAGTGGGGCGATCCACTCCACGATAAGGACGCT  
 TATGAATACATGGCGTCGTATGCCCCATATGAAAACATCGAGGCAAGAACTACCCCAAT  
 ATCTTGGCCGTAACATCGCTCAACGACACCCGAGTGTTGTACGTCGAACCAGCCAAATGG  
 GTAGCGCAGCTTCGGGCGACTGCAACCGGTGGAGAATTCTTCTGAAAACGAAATGGTT  
 GCCGGACACGGCGGTGTGTACGACGCTACGAAAAGTGGCGTGAGACTGCATTTGAGTAC  
 GGCTGGTTGATCAACCAAGCAACCGGTGTGACCGAA

>RXN00622-downstream  
TAAAACTTGTTCGACTAGCGAAC

>RXN00639-upstream  
AGTGTGTGTATCGAGTTCAGCCGATCACAAAGATTTTTCCGCTAGGCAGTGATCCGACTC  
GCACCCCTACTTCACCCCCAAAGTCTCTAGGAGTATGAC

>RXN00639  
ATGACTTCAGCTGAACAGATCGTTGATCCAACAGCCCACGATTCGGGCAACAAGGCAACT  
GACAAAGTTC AAGGCAAACCGCGTTTCCTCCGATACCTCCAAGGAACGCGCAAACCGGATC  
TACGTAGATCTGCTCGCGGCGATCGCCCAGGTTGCTCACAAGCACGAAGTCACCTACGAA  
GAGTACGCAGTGTCTAAGCAGTGGATGATCGACGTTGGAGAATACGGCGAGTGGCCACTG  
TGGTTGGACGTTTTTCGTTGAGCATGAGATCGAAGAGATCAACTACAACCGCCACGACTAC  
ACCGGAACCAAGGGTTCATCGAAGGCCCTTATTACGTAGAGAAGTCTCCGAAGCTCCCT  
TGGGATGCTGAAATGCCAATGCGTGACAAGGACCGCGCATGCACCCCACTGATCTTCGAG  
GGGCAGGTTACTGACCTCGACGGCAACGGTCTTGATGGAGCAGAAGTTGAGCTCTGGCAC  
GCAGATGAGGACGGATACTACTCCAGTTTCGCGCCTGGAATCCCAGAGTGGAACCTGCGT  
GGCACCATCGTTACCGATGAGGAAGGCCGCTACAAGATCAAGACCCTGCAGCCTGCGCCT  
TACCAGATCCCTCATGATGGCCCAACCGGTTGGTTTCATTGAGTCTTACGGTGGGCACCCA  
TGGCGCCAGCCACCTCCACTTGC GCGTTTCCCACCGGGCTACCGCACCATCACCACC  
CAGCTTTACTTCGAGGGTGGCGAGTGGGTCGAAAACGACGTTGCAACCGCTGTGAAGCCA  
GAACCTGGTCCTGCACCCTGAGACTGGCGAGGATGGTAACCACGTTCACTACCCATTTCGTC  
CTGGATAAGGAAGAC

>RXN00639-downstream  
TAGTTTTTCTACCTAGCTAGCAT

>RXN00641-upstream  
TGCGGAATTGCTCGCAAATGTCACACACCGCTTCAAAGCAAAAACGAAAACGACATCGCG  
GTGGCAATACCAACTTCTTTTCACTCTCTTGGAGGTTTAC

>RXN00641  
ATGTCCACACCAGTTTCAAATTTGGCAAGCGTTCAGAAAACCTCTGGACCATGCGCTTGAG  
GACCGCCCTGAAGAGGGAATCGTCCGCGTCAACCGCAACATCTTCACTGACCCTGAGATC  
TTCGAGCTGGAGATGCGCCACATCTTCAAGGCATCTGGATGGACATGGCTCACGAGTCC  
CAGATCCCTAACGGTGGAGACTACTTCACCACCTACATTGGCTGCCAGCGGATCATGATC  
ACCCGTTCCAAGGAAGGCACACTCAACGGCCTGATCAACGCGTGTTCTCACCGTGGCGCC  
ATGCTCTGCCGTGGCAAGAGTGACAACCGCACTCCTTGACCTGCCCATTCACGCGTGG  
CCATTCTGCAACGGCGGCGCACTGCTCAAGGTCAAGGGCGAAAAAGAGCGCCTACCCA  
GAGAATTTCCGCACCGACGGCTCCCACGATGTGCGTTCCTAAGTTAGAGTCTTAC  
CGTGGCTTCTCTTCGGCTCCCTCAACGATGATGTCGTTTCTTTGGAAGAGCACCTCGGC  
GACACCCGTACCGTCATTGACATGCTGGTTGACCAATCCCCAGAAGGCCTCGAAGTACTG  
CGCGGATCCTCCACCTACACCTACGACGGCAACTGGAAGCTCCAGACCGAAAACGGTGCA  
GACGGCTACCACGTTTCTCCACCCACTGGAACCTACGCTGCAACCACCTCCCGCCGTGGC  
ACTGGTGAATCCGCGAACGAAACCAAGGCAATGGACGCTGGTACCTGGGGCAAGCAGGGT  
GGCGGATACTTCTCCTACCCTTACGGCCACATGCTGCTGTGGATGTGGTGGGGCAACCCA  
GAAGACCGCCCACTGTTCGAGCGCCGCGACGAGTTCAAGAAGGAATTCGGCGAAGAAAAG  
GGCGAGTTTCATGGTTGGTGCTTCCCGCAATCTGTGCCTCTACCCCAATGTTTACCTGATG  
GATCAGTTCTCCTCACAGATCCGCCACATCCGCCCAATCTCAGTTGATCAGACCGAAGTC  
ACCATCTACTGCATCGCACCTAAGGGCGAGTCCGCGGAAGCACGTGCAAACCGCATCCGC  
CAGTACGAAGACTTCTTCAACGCAACGGGCATGGCAACCCCAAGATGACCTGGAGGAATTC  
CGCTCCTGCCAGAAGACCTACCAGGCATCTGCCTTCCCATGGAATGACATGACCCGCGGT  
TTGGGCCACCAAGGTACAGGGACCAAACGAGGTTGCCAAGGGCCTAGGCATGAACGAAGTT  
CTTTCTCCGGAGCACGCACCGAAGATGAAGGCCTTACCCCAATCCAGCACGGCTTCTGG  
CATGAACCTCATGCAGGAGGCTGTGAATAAGCAGAGCATCAAGGAAAAGGAATTGGCTGAC  
GATACCGCTTCTTCCCTTGCCACCGTAGCTGCAGCCAAAATCCGTGAGGAAGCAAAGGCA  
GCCGCGAAGTCCGACGCTGGAGAGCCTCGCCGCGTCTGTCGACCCGCGGT

>RXN00641-downstream

TAGTCGTCGAAAAGCAAAAATC

>RXN00658-upstream

CATTGACACCCACAGGTTTACCAGCATCACGGAAAGTTTGGATGGATTTTTACTCCGGCC  
ACAACGTCTGGCTGGAAGCTCAGCCACGTGCTTTCTGGTC

>RXN00658

GTGCGCCACGACGAGCACTACCCAGCTGCGGCAAACCTCATTGCTTTCGATAAGGGATGG  
TCCACCCTCATCGCCCCTCAGCTGGAAGATCCAGAGGCGGAGGAGTTCACCGCCGGATTC  
CTCACCGAATACCAGGACAATCTGATCACTGCGGGCATGGAGCACCAGGCGCTCGCGAGC  
GGCTTCCCGGTGGGGCGTCGCTTCAAGTCCGATATTGCTTTACGACGCTGCGATGCGGTG  
ACCACCCACATCGGCCACGAACACTCCGCCGATGGTCACTGGAGGATCTACGTATTGCT  
GGCCAAGCCACCCACAAAGATTCCGAGTCTGCACTGAACAAGTGGGCGCAGTGGATGGAG  
GAAAGCGAAGACTCACCCTCAACCGCTTACCCCAAGAGCCGGCGACCGCAACGCACTC  
TTCGATATCAAGGCTACCTACCAGCAGCATTACCACTCCTTCGACCTGTTTCGATGCGCCA  
GAGGTCTTCTTCCACGAGTTGGACCATAACAAGCTGCAAAACCTCGAAAACGTTTGACC  
GCACTGGATTCCCAAGACATCTTTGAGTCCCGTGGCATCAGTCGCGATGGCGCAATTGTT  
GTCGTTCCGCGACAGTACGTGCGCAGCAGTCTCCCACTCGAAGACACCGCAGCACTG  
GCTGAGTTCTTCAATGGCAATCTGCTTGAGCCA

>RXN00658-downstream

TAAACCCCTAAATTCTAGGAACGA

>RXN00663-upstream

CTGAACGATTGGTGACCGGCTCATGAAACTTGACGAGTCCCCGGTATTCGCCAGCGGTG  
ACTACTACCGTGGGCGACAAGCCCACTTAGAGGAGGACTT

>RXN00663

GTGACAACCACCTATCCAGATTTCTTGGAAATTCTTCGCTCCAAACAGATACGGAGCAC  
TGGGAAATGGAAGGAGGTGCGCAGGAAGTCTCTGTTACTTATGTTTTGGACACGTCAGTG  
TTGCTGTCTGATCCGTTGTCTTGACACGGTTTCGCGGAGCAGATGTAGTTCTGCCAATT  
GTTGTAATTACGGAATTAGAAGCCAAGCGTCATCACCCGGACCTTGGCTTTTTTGCTCGC  
CAAGCGCTTCGGATGCTGGATGAGCTGCGTGAGATCCATGGGGATTTGTCCAAGCCACTG  
CCAATTGGCGATGAAGGCGGACACATCCATGTTGAGCTGAATCACCAAAACACGGGGTCC  
TTGCCCCGTGGGATTCCGCCTTGGTGACAATGACACCCGCATCCTTGCACTGGCCAAGAAT  
CTGCAGGAAGAGGGCCACAATGTGGTTCTGGTGTGCAAGGACCTGCCGATGCGGATTAAG  
GCGTCGGCAAGCGGAATCGCCGCACAGGAATACCGCGCTGCCCTGGCGCGCGACCGTGGT  
TACACCGGCATGACCCACGCCAATATCACCGATGACAGCTCAGCGAGCTCTACGACACC  
GGCGAGGTGCGCATTGAGGAGCTCGAAAAGCTGCCCGTCAACCACGGCTTCACCCCTCAAA  
TCCAACAGCGGTTTCGGCGCTTGGTTCGTATGAATTCCGACAAGATCATCGAGCTTGTCCCC  
GGCAGCAGCAGGTATTTCGGTATCAGCGGGCGTAGCGCTGAGCAGCGGGTTGCCATTGAT  
TTGCTTAACGACGACGCCGTCGGCATCGTATCCATCGGCGGCCCCGCGGGTACAGGTAAG  
AGCGCACTCGCACTGTGTGCCGGCCTGGAAGCTGTGATGGAGCGTCGCATTACGCGCAAG  
ATTATCGTGTTCGCCCCACTCTTTGCCGTTGGCGGACAGGAACCTGGCTACCTGCCTGGC  
GACCAAGAAGAAAAAATGGGGCCTTGGGCGCAAGCGGTTTTTGACACCCCTAAGCTCCATG  
GTCAGCCAAAACATCATCGATGAAGCCCTCTCCCGCGGCCTCATCGAAGTTCTCCCACTT  
ACTCACATCCGCGGACGCTCACTCCACGATGCTTTCGTATCGTCGACGAGGCCCAATCC  
CTAGAACGCAACGTGTTGCTCACCATGCTGTCTCGCATCGGCCAGAATTCCCGAGTAGTT  
CTCACCCATGACGTAGCGCAGCGCACAACCTGCGCGTTGGTCGCTACGACGGCATCGTC  
TCTGTGGTGGAAGCACTCAAGGATCACGAAGTGTGTTGGCCACATCACGTTGCAGCGTTCC  
GAACGCTCCCGAATCGCTGAGTTGGTCAACCAAGTTTTGGATGCGCCGTCTCTG

>RXN00663-downstream

TAGTCGCGCAGTCTGTGGCGATT

>RXN00665-upstream

ACCAAACTTCTGTGCGTGACACGCGCCACCTTATACTCCCAAGCAACACAGAACAC  
TCGGGATCTCAAAGTTTCGAGAAACACAGAAAGGGCAGCA

>RXN00665

ATGAGCAGCTCAACACTTCTCCTGGCTTCAGGACAAGTCACGGCATTAGCCGCTGACTAC  
ACGCTCAGCCACACCCCTCAGATGGCATCCTGGTAGTCCTTGGCTTCGCCATGATCCTC  
ACCTTCATGACCCTGATCATGCTGGGTCGACTCACCCCAATGGTGGCCATGCTGTTGGTC  
CCCACCATCTTCGGTCTCATCGCCGGCGCAGGACTCGGCCTTGGTGACATGGCGCTTGAC  
GCCATCAAGGACATGGCGCCTACCGCGGCACTCCTGATGTTTCGCGATTATGTTCTTCGGA  
ATCATGATCGACGTTCGACTCTTCGACCCCTGATCCGCGTGATCACCCGCGTTCTTCAC  
GATGACCCCGCAAAGGTTCGTCATCGGCACCGCAGTACTTGCAGGTGTTGTCTCCCTCGAC  
GGCGACGGCTCCACCACCTTCATCATTACCACCTTCGCGGATGCTGCCCATCTACCTGCG  
CCTTGGCATGAGCCCTGTGGT

>RXN00675-upstream

GTGGAAGTACTCACCTCAAGGTGGCCGGAACCGCATGCATTGTGCGGTGCCGGCCACCTT  
TGGTTTTAACAGTTTAATTTGAAGAAAGAGACGTGGAAGC

>RXN00675

ATGGGTTTTCCGTTCCAAGAAGAAGGTTATTGCGGCAAAGACCGCCGCTGAGCTGGACGCG  
ATGCAGGCGGCGGGTGAGATCGTCGGCAAGGCTTTGCAGGCTGTGCGCGCTGAGGCTAAA  
GCTGGCATGAGCACGTGGGATCTGGATCAGATCGCGGAGCAGGTTATCCGCGATGCTGGC  
GCCGTTCTACATTCTGGGTTACCAGGGTTTTCCGGCATCAGTGTGCGCTTCGGTCAAT  
GAGGTGATTGTTACGGCATTCCATCCAAGGAGACCATCTTGGAGGAAGGCGATCTGGTG  
TCCATCGACTGCGGCGCAACCTTTGATGGTTGGGTCGGCGATTCCGCGTGGAGCTTCGGC  
ATCGGCGAGCTGGACGAGGACGTCCAGGGTCTCAACTTGGCTACCGAGTGGGTCTCATG  
GAAGGCATGAAGGCCATGGTTCCAGGCAACCGTTTGACCGATGTCTCCCACGCTCTCGAG  
GTCGCAACCCGCAAGGCTGAGTCCAAGTTCGGCGTCGCGCTCGGCATCGTCGATGGCTAC  
GGCGGACACGGCATTGGCCGCCACATGCACGAGGAGCCATACTTGGCTAATGAGGGCAAG  
GCCGGCAAGGGCCCTGTGATTACAGGAGGGCTCCGTGCTCGCCATTGAGCCTATGCTCACC  
CTCGGCACCGAAGATTCCGCGAGTGCTGGAAGATGATTGGACTGTGCTGACTCTCGACGGT  
TCATGGGCATCACACTGGGAGCACACCGTTGCAGCCACCAAGGGCGGCCCCGCGCATCCTC  
ACGCCGCGTTAT

>RXN00675-downstream

TAAAATGATGCTTTTCGACGCAT

>RXN00689-upstream

ACAGGGAAATCCTCCCAGAATTAATCACCGAAGCTGCACACCAGATGGCTACTGCAGACC  
TCAATCGTGCAAAGGCCCTGTAAAGAACGGATGCGATCCG

>RXN00689

ATGAATGCTGCAACCAGGCGTGCTTCTCTGCAACTCCCCTATACCCATGTCGATGATTTT  
TACATCAACGGTTCTTGGGTTAAAGCAGAAGGAACACAACGCAACCCCGTAGTTGATCCT  
GCGGTTCGGTCAAGAATGGGGATCTGTTCCAGAAGCAACCGCATCTGAATTGGACTCTGCG  
GTGGGAGCTGCACGTACAGCGCTAAAGTCGTGGAGTGCACTTACAGGTGCGGAACGAACA  
GGCTACCTCCTGAAAATCGCGACGGAAATTGAATCCCGTTCTGAAGCTCTAGCACTTACT  
AATACCCGCGAAAATGGTTCCCCCATTTCCGAGACCCGTGGAGCTGCGTCCAATGCAGCA  
GGAATTTTCCGTTACTTTGCCACTCTCGCGCCTTGGTTAGACGGCGAAGACATCCGCCCC  
TTTCTTGCCGCTAGCGCCGAATCCATCGTGGATAAAGATCCCATCGGTGTCTGCGCACTC  
ATCGCCCCATGGAATTTCCCGATCAACCTTGTAGTCATCAAACCTGGCACCAGCACTTCTT  
GCCGGCTGTACCGTCATCATCAAACCAGCCTCCCCACCCCACTGTGCGATCCGTTTCATC  
ATCGAAGCCATCGAAGCCGCGGAGTGCCAGCAGGCGTAGTCAACCTACTCACCGGTTCA  
GGGCGTTTTCCGGTGTGTCCTTGTCCGCCACCCCGGAGTAGACAAGGTAGCGTTTACCGGA  
TCAACGCCTGTTGGAAAGAAGATCGCTGCCGCTGCGGAGAACTACTCCGACCAGTGACT  
TTAGAGCTAGGCGGAAAATCTTCCGCGATTATCCTTCTGATGCAGACATGTCAGTACTC  
TCGACGCGGTTGATTTCGATCCTGTATGCGCAACACTGGACAAACCTGCTACATCAGTACC  
CGGATTATTGCCCTAGCTCACGCTATGCGGAAGTCGTACAAACAGTGGAAGCACTATC  
GCTGCAGGTAGACAAGGTGACCCCTATGATGAAGAAACGGTTTTTGGGCCAGTTGCCAGC  
GCCTCTCAGTACTCAACCGTCATGTCTTACATTGACTCCGCACGAGAGGAAGGTGCACGA  
GTGGTTGCAGGTGGAACCCGGTCAATCAGCCTTTCTGAAGGTTTAGAATCAGGCGAGTTT



ATCCAACCAACCGTGTGTTGCCGATGTCACCCCGACATGCGGATATCACGCGAAGAAATC  
TTCGGCCCTGTTATTTCCATCTTAAAGTACGACGATACAAACGGTGTTCGGAAGCAATC  
GCACCTAGCCAACAACACGAAATTCGGTCTCGGTGGCTTGGTATTTGGTGCGGATGAGGAA  
CAAGCACTAGAAGTCGCCCCGTCAAGTGGATTCTGGTTCCGTAGGCATCAACTTCTTCGGT  
TCCAACCATTCGCCCCATTTGGAGGACGCCACGAATCCGGTATGGGAGTGGAATACGGC  
ATCGAAGGCCTCAGTGCTTACCTGACATACAAGAGTATTCACCGAACCATT

>RXN00689-downstream  
TAGTTACTGAAAGTTCTCAGCTA

>RXN00778-upstream  
AGGTCTTAGGTTTTTAAGTCGTGAGCAATCCGGAGGGAAACTAGCCCGCCTACAGGATCT  
GCTCAGACGATGTCTTCACTTAAACCGGAAAGGCTTCCCC

>RXN00778  
GTGAACCTCACTCTTAAGCGCTCCATCGCCCTTGTGGGCGCAGTTACTGCAGGCTCCTTC  
GCTCTTGTAGCTTGCTCCGACTCCAATGAGTCTGATTCCACCTCCTCATCTGCAGCTTCC  
ACCGGTTCTTCCGATGCTGCATCCATTGAGGGCCTTTCCGGTGTACCGGTCAGCTCGTT  
GCTGAAGGTGCATCTTCCAGCAGTCCGCAATGGACTACTTTGGTATCCGTTACTCCGAG  
GCTGTGACGGGTGCATCTCTGGCTTACACCCCTTACGGTTCCGGTTCGGGCCGACCAAC  
TTCGCTGCAGGCCAGGTTGCTTTCGGTGGCTCCGACTCCGCAATGAAGGACGACCAGGCT  
GCAGAAGCAGAAGCAGCTTGCAACGGCAACGAAGCATGGCACCTGCCATTTCGTTATCGGC  
CCAGTTGCAGTTGCTTACAACCTGCCTGGCGTTGACACCTGAACCTGGACACCAACATC  
ATCGCTCAGATCTTCAAGGGCGAGATCACCAAGTGGAACGACGAAGCAATCGCTTCCCAG  
AACGAGGGCACCGACCTCCCAGACCAGGACATCTCCGTTCTGTACCGTTCCGAAGAGTCC  
GGTACCTCCGACAACCTCCAGAAGTTCTCGGAGCTTCCACCGACATCTGGGAGACCGAA  
GGCCAGCAGTTCCCAACCGAGGTTGGCTCCGGTGCAGGGCTCCAACGGTGTAGCTTCT  
GAGGCTTCCAACATCGAGGGTGCAATCACCTACGTTGAAGCTGGTTTCGCTAACCAGTCC  
GGCCTGGGCGTTGCAAAACATCGACTTCGGTTCCGGCCCCAGTTGAACTCAACGCTGAGTCC  
GTTGGCGTTGCACTTGGTGCATCTGACTTCCTGACTGAGGGCCACAACATGGTTGTTGAC  
ACCGACGCTATGTTGCAATGAACGAAGCCGGTGTACCCACTGATCCTCACCACCTAC  
GAAATCGTCTGCTCCGACGGCTACGACGAGACACCCGCGACCGAGGTCAAGGACTTCTTG  
ACCGTTGCACTGGATCCAGGATGACCAGCTCGAGGCTCTCGGCTACATCCAGTTACC  
GGCGAGCACTACGATCGCCTCGTTGCAGCAGTTGAAGCAATTACG

>RXN00778-downstream  
TAATAAACCGCTGCCGTAGCTTC

>RXN00787-upstream  
CCAGCCCGCCCAATAAATAATTTCTCTCTTCTAATTGCGGAGCCTCATATATTGAGTACG  
GTATTTTGAAACACCTTCAGCCCCCTTTTTAGGAGCCACA

>RXN00787  
GTGTCTCAGCCTCTCAGCAAGCGTCTCAGCATACGAAAAGCACTCGCCAGCGCCTTCATA  
GTTGCGCTGGCGTTTTTCGCTTTCCCCAGTAGCCAAAGCCCAAGCCAATGAACTCCGACG  
ATGATCGTGTGGACAATTCAGGCTCCATGACAGCTCAAGATGCCGGCGGACAGACCCGT  
ATCGATGCAGCAAAACAAGCCTCCACTCAGTTAATTAATGACATCTCCGACCGCACCGAC  
GTAGGTCTGACCTACTACGGCGGAAACACCGGCGAAACAGAAGCAGACGTTGAGATGGGA  
TGCCAAGACGTCAACATCCTTGGCGGCCCTCCCGAGGAAATGCAGACACCTTAATTGAC  
ACGATCAACAGCCTGCAGCCTCGAGGCTTCACCCCATCGGCAAAAGCACTCACCGATACC  
GCCGCCGAGCTCCCCGAAGGCGGAAACATTGTGTTGGTCTCCGATGGCATCGCCAACTGC  
ACCCACCGGATGTCTGCGAAGTAGCCCAAGAACTGGCTCAAAGTGGAATCAACCTGGTT  
ATCAACACCATCGGACTAAATGTTGATCCAGCAGCGCGAAGAACTGGAGTGCATCGCT  
GGAGTCGGTGGTGGCACTTACGCGGATGCTTCCGACGCGCAGAGCCTTACCGATGCGCTG  
ACACGAGCCGCCAGTAGGCAATACAACCTTACACCTCCGATGTGACAAAAATTGATGGG  
GCATCGGAACAAAGCGCAGCCGTAGAAATTGATGAGGATACAGAACTATTCCTCACCAGC  
CTGCCACAAGAATCCCGCTTTTGGAAAATCCCTGTAGAGCCAGGTGAAACCATCTCAGTT  
TCTGCCAACACAGTTACCGACCAACAGTACTACCATGGGGCAAGGCGGAATCAAGCTT  
GAAGCCCAACTCCATACCTGAAGAGGCTCCACAATAACGGCCTGCGTGGTGGTGCATCGG  
GTCTCATTTGATAATTTCAAGCCCGCCTTGGTGTACGCGGAATCCAAAACGCGTCCGTT

GCATCAAAAGAAGTGGGCACCAACAACTGTGACACCGATGCCATCTACCTCGAAAATTTCT  
 AGAAGCGGAGATTACCTCAACGGGCAGGACATTCACCGGAAATCACCATCGAGCGCTTC  
 GGAAAAGTAGATGAATCAACAATCGGAAATGTCACAGAGGAACATAGCTCCGTCGATCTT  
 ACCGAGGCTGCAGCATCAGAGGCACACCCTGTACACCTGGCCAGTGGTTACATCGGCC  
 GCTGATCTAGATCCCGCAGGTGAGAAAGTCTCCTCCATCATCGTTCCAGGAGAAACCCAC  
 TTCTATGCGCTGCCTGTGCGACTACGGCCAAGAACTGCGCGCAGCTGTAGAAAACAACTTTT  
 GACCAAATCGACAGTTCCGCGCTTGGCACGCATCTTTATATCCAAGCGTTCAGCCCAAAC  
 CGGGCAGAGATAGAGCTACCAATAGAGATACGTATATGCGGACGACAACGGGCTCAAA  
 ACTTTTGGATTCTTACCCCCAGTGAGTGCAGCAAATTTGTTTCGAGAAAAGTTCTCAAGGC  
 ATATCGCTAAGGAGCCCATGGCAAGGTGGCACCCAATACCTCGCAGTGACATACCTACCA  
 AGTGGTCAAGATGAAGATGTATCCGCAACTGATCAGCTGCCACATTGGAATATGAACTC  
 GTGGCAGAAGCGTTTGGAGACCCTGTTGACCCACCGGTTTTTCGCTTCATTGACGGGAGCA  
 ACCCCAAGCACCTCCACCCCCCATCAGATGTTGCGGAAGATGAACAAATCTCCGAGGCA  
 ACAGAAGAAGACTCAAGCAGTTTCCCCATCGTGTGGATTGGGCTGGGTGTCATTGGCTTA  
 GGCATAATCATTGGTTTGATCTTTGCGCTGAGAAGAAAGAAT

>RXN00787-downstream  
 TAAGCCCTAAAGATAAAGAGTC

>RXN00818-upstream  
 TTCCCAATGCGCAACCCACGACGTCACCTCAATCTCATTGGTAACTTTAGTTTCTTTCT  
 CAGTCTTGGAAGTTGCCAAAAAGCGCTAAACTATGCGGT

>RXN00818  
 GTGAAGCACCCAGATCCCGCCCCAAAAGTAGAGGGCACCCTGCGACCACCCCCACAAAG  
 GTGGCTGCTTTTTTCGATCTGGACAAGACCATCATCGCCATGAGTTCCACCTACGCCTAC  
 GGCCGTGAGTTTCATGAACAGCGGGCTCATCTCCCTGTGCAAGCCCTGCAATTAAGCCTC  
 GCGCAAGCAACGTACATGTTGCGCGGCCACACCAGTGAACAAATGGACAACACCCGCGAC  
 CAACTCACCGCCATGATCCGCGGCTGGGAAGTCCAACAGGTGCGCTCGATCGCGGAGGAA  
 ACCATGCATTGCGGTGGTCACTCCCACCATCTACGCAGAGGGCCGCGAACTGATCGAGCAC  
 CACCAGGAGCTCGGCCACGATGTCATCATCATTTCCGCTCTGTGAAAGAACTGGTGGAA  
 CCCATCGCCCGCGAACTGGGTGTACATAAAACTGTCACCACCGTGCTTGAAGCCACGAC  
 GGTATGTACACCGGTGAAGTGCTGTTTTACTGCAAAGGCGACGCTAAAGCGCAGTCCATC  
 CTGGATCTCGCCGAGGCGAACAATTACGACCTTTCTTAAGCTTCGCCTACTCCGATTCC  
 TTCACGGACCTGCCCATGTTGGAAGCTGTGCGCAACCCGCGCCGCTCAACCCCGACCGC  
 GCGCTGAAGAAAATCGCCCTTGAACAGGGGTGGAAAATCTTAAGCTTCAAAAACCCTGAA  
 CCGCTGTTCCAAATGCCCAGCACCCGCGACGTCGGCATCGGAACCGGAGTTGTTGCCGGC  
 ATCGCAGCTGTTACAGCAGGTAGTATCTGGTGGATGAAACGCGCACGGCGCGGATCGGCC

>RXN00818-downstream  
 TGAGCCTCACCTGACAGCAGTTA

>RXN00820-upstream  
 ACTTCCACCACCCCAAACCATCGTTTCTTTTGAAGACGCACCAACCCCTACCGGCCAGGA  
 CCTGGGCTTTTCGCAGTGGCGCACTGTACCCAGGAGATG

>RXN00820  
 GTGAACACCTTGGCGGACGCAACTGATGATCAGCAGTGGATTACACTGATCCTGAGCGC  
 GCCAAGGACGGTCTTTTTGGTGGCGCAATTGCCACGGTTTCCTCACCTTGTCATGATC  
 ATTCCGTTCGGGGCGAGCTTCTCGATGTACCGGCGTGACCACCAAGGTGAACTATGGC  
 CTGGATAAGGTGCGTTTACCTCTCCCGTCAAGGTGCGTTCCCGCATCCGCATGGGCGCT  
 GTGGTCCGTGAGATCTCTGAGGTGAAGGGCAATGGCTGCACCTGGTCGCCGATGGCACT  
 ATTGAGATCGAAGGGCAGGAGCGCCGCGCTCGTAGCTACCTTCCTCACCCGCTTCTAC  
 GCT

>RXN00820-downstream  
 TAAAAGCTTGCTTCTCGACGCAA

## &gt;RXN00866-upstream

GCATCAACGTAGGAGATCCTCGACTTCCAATTATGGCTCCAAATGAGCAGGAACTTGAGG  
CTCTCCGAGAAGACATGAAAAAGCTGGAGTTCTATAAAT

## &gt;RXN00866

ATGAATGATTCCCGAAATCGCGGCCGGAAGGTTACCCGCAAGGCGGGCCACCAGAAAGCT  
GGTCAGGAAAACCATCTGGATACCCCTGTCTTTTCAGGCACCAGATGCTTCTCTAACCCAG  
AGCGCTGTAAAAGCTGAGACCGCCGGAACGACAATCGGGATGCTGCGCAAGGTGCTCAA  
GGATCCCAAGATTCTCAGGGTTCCAGAACGCTCAAGGTTCCAGAACCGCGAGTCCGGA  
AACAACAACCGCAACCGTTCCAACAACAACCGTCGCGGTGGTCTGGACGTCGTGGATCC  
GGAAACGCCAATGAGGGCGCGAACAACAACAGCGGTAACCAGAACCGTCAGGGCGGAAAC  
CGTGGCAACCGCGGTGGCGGACGCCGAAACGTTGTTAAGTCGATGCAGGGTGCGGATCTG  
ACCCAGCGCCTGCCAGAGCCACCAAGGCACCGGCAACCGGTCTGCGTATTTACGCACTT  
GGTGGCATTTCCGAAATCGGTGCGAACATGACCGTGTTTGAGTACAACAACCGTCTGCTC  
ATCGTGGACTGTGGTGTGCTCTTCCCATCTTCAGGTGAGCCAGGCGTTGACCTGATTCTT  
CCTGACTTCGGCCCAATTGAGGATCACCTGCACCGCGTCGATGCATTGGTGGTTACTCAC  
GGACACGAAGACCACATTGGTGCTATTCCTGGCTGCTGAAGCTGCGCAACGATATCCCA  
ATCTTGGCATCCCGTTTACCTTGGCTCTGATTGCAGCTAAGTGTAAGGAACACCGTCAG  
CGTCCGAAGCTGATCGAGGTCAACGAGCAGTCCAATGAGGACCGCGGACCGTTCAACATT  
CGCTTCTGGGCTGTTAACCCTCCATCCCAGACTGCCTTGGTCTTGCTATCAAGACTCCT  
GCTGGTTTGGTCATCCACACCGGTGACATCAAGCTGGATCAGACTCCTCCTGATGGACGC  
CCAAC

## &gt;RXN00877-upstream

AAATAATGGGGCTCGCCGGTGATGGTTCGCCGCGGCATTCAACGGTGACGGAAGAGGTG  
GCAGACATGATGAAAACCTTAGCAACTAGTATCGGTCACT

## &gt;RXN00877

ATGACTGTTGAACACCTGCTCAAGCCCAGCACCTTGCCCTACCAGCTGCCCCGATTTTCGCA  
GCGATCAAGGTGGCTGATTTCCCGCCCGCCTTCGAACTCGCATTAGCTGAACACGATGCT  
GAAATTACAGCGATCGCTACCAATGAGGACGCTCCTACCTGGGAGAACACCATTGAGGCC  
CTGGAACGCGCAGGCCTGTCCCTCAACCGCGTCGCCGCGTATTCTTCAACTTGCAGGGC  
ACCGATTCTCCCTGAAATGGATGAAATCGCAGCCACTATCGCGCCGAAACTCTCCGCG  
CATTGCGATGCGATTTTCCACAATGCTGCGCTTTTCGCGCGCATTGAGGCCGTAGAAGCA  
CCGGCCGACGAGGAATCGCAACGCCTGTTGTCCACACCAAGCGCGCTTTTCGACGTCGC  
GGTGCAGCACTCAACGCCGACGGCAAGGCCGACTGAGCACCATCAACCAGCGCCTATCG  
GCACTGTCCGAACAGTTTCGGCCGCAACCTGCTTCAGGACACCCGCGATCTGGCGGTCAAC  
TTTGAAGAATCTGAACTTGCCGGTTTTAGCGAAGCCCGCATATCCGCCGCCGCTGACTAC  
GCAGCAGCAGTTGGCACCGAAGGCTACGTGGTTCCACTGGAAGTGGCCACCGTGACGTCA  
GAGCAGGCAAGTATTAACCGAATCCGCCCTCGCGTGCAAGCTTTATGAAGCCTCCAGAAAG  
CGTGGCGCCGACCTGAACAAGGACGTGCTGCTCGAAACCGTGCGTCTGCGTGCTGAACGC  
GCCACACTTTTAGGCTACGACACCCACGCCGATTACGTTCATCGAAGAAGAAACCGCCGAT  
GACGTGCGAGCCGTGCGCGCCTTGCTTTATGATCTCGCCCCAGCCGCTCTGCCAATGCG  
AAAGCCGAATACAACTCTCCGCAAGAAGCAGAAGAACACGGCCAAAAAGTCGGCGCA  
GCTGACTGGAGCTTCTGGGAAGCCAAAGTCCGCGCCCGCGACTACGCCCTGGACGAAACC  
GAACTGCGCAACTACTTCCCATTGAACCAAGTACTCCGTGACGGCGTCTTCTTCGCTGCT  
AACCGCCTCTACGGAATCACCGTGGAACACGCCCTGACCTGCGCGGTACGCCGAGGGC  
GTGGACGTCTGGGAAGTCCTCGATTCTGACGGCTCCGGCATCGGCCTGATCCTTACCGAC  
TACTACGGCCGACCATCCAAGCGGGCGGCGCTTGGATGTCCAGCTTTGTCGACCAATCC  
GAGCTGCTAGGCACCAAGCCAGTCGTGGTCAACGTTATGGGTATTACCAAACCAACCACC  
GGCGAAGCACTACTCAGCCTCGATGAAGTAACCACCATCTTCCACGAATTCGGCCACGGC  
CTGCACGGCTTGCTGTCCAAGGTGCGCTACCCAAGCTTCTCCGGAACCTCCGTGCCCCGC  
GACTACGTAGAATTCCCCTCCCAGATCAACGAAAACCTGGGCATTTCGACCCTGCAGTAGTC  
CGCAACTACGCCCGCCACGTGGACACCGGCGACATCATTCCAGACTCCCTGCTTGAGGCA  
GTGGAAGCATGTGGCATTTTCAGACAGAGTGGTGAACATGTGAGTACTTGTCCCCATCTA  
TTATCGACCTGCCCTGTCTCTCCCTGTCCACAGCGGATGCCGCAC

## &gt;RXN00877-downstream

TAGTCAATGACATTGACCAATTA

>RXN00905-upstream

CGCTGCCCCCTCTATGCTGCTCCTAGTTACCCCTGCACAAATAGCGGTTTTTCTCACGCAT  
TCTGCATCGAGTCGGGTCGACGTATATAAGGTGGAAAGGC

>RXN00905

ATGACCCAATTTCGAAAACGCGCAAGTACTTAAAGAGAACATCGAAAACCAACGCGAGCAG  
ATCTTTACCCAGTTGAAAGAAATTGTGTCTTTCAACTCCGTGCACAGCGATCCAAACCTA  
CTGGAGGACTACGCCGGCGCGAAAGAATGGGTAAAAGAAACACTGACCAACGCAGGTCTC  
ACCGTCAGCGAATTCGCTGCCGAAGATGGAACCACTTCATCGGCACCCGCAAGGGC  
TCCGAAGGTGCACCAAAGGTACTGCTGTACAGCCACTTCGACGTTGTCCCATCCGGCCCT  
TTGGATCTCTGGGACACCAATCCTTTTGAACCTCACCAGCGCGACGCTGGCCACGGCACC  
CGCTGGTACGGCCGCGGCGCGCTGACTGCAAGGGCAACCTGGTCATGCACCTCGCAGCA  
CTGCGCGCCGTCAAGCCAGCGGCGACACCACTCAACCTCACCTACGTGGTCGAGGGC  
TCCGAGGAAATGGGAGGCGGAGCGCTCAGCGCGCTCATCAAGGACAAGCCTGAGCTTTTC  
GACGCAGATGTCATCTTGATTGCAGACAGCGGAAACGCTTCCGTGGGCACCCCAACCTTG  
ACCACTACCCTGCGCGGTGGCGGACAGGTACCGTCACCGTGGACACCCTTGAAGGCGCT  
GTTCACTCCGGCCAGAAGGTGGCGCTGCCCCAGATGCTGTTGCTGCTCTCGTGCGCGTT  
CTGGATACTTTGCGCGATGAACACGGACGCACCGTTATCGACGGCTGTCAACACCACCGC  
AAACTGGAAGGGCGAGCCTTA

>RXN00905-downstream

TGATCCAGAGACTTTCCGCAGCG

>RXN00948-upstream

ACACCCTCCAAATGATCTCGTAAAACAGTATTGAATTTAGGTACGACTCTAATCGTACCT  
TGCCCTCAAGCCAAGCTAGTTGTACGATCAAACCTCGTTGT

>RXN00948

ATGGCAAACGTCGTACTAGTCGATCGAATGGAGCCTTTGGTGTCCAAGCTGTTTACCCCA  
ATTCAAATCCGCGACATCACCATCCCCAACCGCGTGTGGATGTCACCGATGTGCACCTAC  
TCTGCAGCCACCGGTTCCAGGTCTTCCACCGATTTTACCAGGCTCATTACGCAGCTCGC  
GCAGCAGGTGGTGTCCGATTAGTCATGGTTGAAGCAACTGGAGTGAACCCCGTAGCTCCC  
ATCTCCCCAGTCGACCTTGGACTTTGGAGCCATGACCAAATTGAACCATTCTCCCGAGTG  
ACAGCAGCTATTTCGCGCCGTTGGGGCAGTACCGGCCGTTCAATTAGCCCATGCTGGCCGC  
AAGGCATCCACCGATGCTCCGTGGAATGGTGGCGGATATGTTGGACCAGAAACCAATGGA  
TGGGAGACTGTGCGCCCCAGCCCTCTGGCATTCCCAGGTTTGCCTGCTCCGCGCGAGCTG  
ACGGTTTTCAGAAATCCAAGAGGTTGTGCAGCAGTTCGCTGGCGCCGCCGTTTCGTGCCGAT  
CAGGCTGGTTTTGATGTGCTGGAAATTCACGCAGCACACGGCTACCTTTTGCATAACTTC  
CTTTCTCCGATCTCCAACAAGCGCACCGATTTCATACGGCGGATCTTTAGAAAACCGCGCT  
CGCATCGTGCTCGAAGTCATTGATGCAATCCGCGCAGTGTGGCCAGAGGAAAAGCCTGTA  
TTCATGCGCATTTCCACCACCGACTGGGTGGAGGAAAACCCACAGGATGATCGCGAGTCC  
TGGACGCTGAGCCAAAGCAGGCAGCTGGCTTTGTGGGCATCCGAGCACGGAGTTGATTTG  
ATCGATGCCTCTTCTGGTGGCCTCGACATCGTCCCCATTCCGCATGACCGCGATTACCAA  
ACCGCGAAGGCCGCGAGATCTTCACGCAAGTACCGGAGTGACAGTCGCTGCTGTGGGGCGC  
ATTGATGACGCCCCAACTGCGCACAATTTGGTTGATTCTGGCGATGTCAATGCAGTTTTC  
CTCGGCCGTCCACTGCTCAAGGATCCTTCCTGGGCAAACCAAGCAGCCCTCGCACTAGGT  
GCGGAACCCAGGTATGTTACCAATACGACTACGTACTT

>RXN00948-downstream

TAAAGGAGAGTTGACATGAAGGT

>RXN00982-upstream

GAAAACAAACGTCTTGAAGCCGTAATGCCCCGTTGACAATAAAAAGGGTAGTAGCAGT  
TCTTGCCGCTCGACTGCGCTTAGCCCTTTTTTGGTATCA

>RXN00982

ATGCCCCACTGCAGCAGCGCAAGAAAACATCCGCTGGGAAGAATGCCACCTCAGGTAGAT  
ATTGCCTCCGCTCAATGTGGCAGCATCGACGTGCCATGCACTATTCTGATCCCTCACTT  
GGCGATATCAGCGTGGGCTTTGTCAAGGTCCTGCCAAGGCGAAAAGCACGGCACCATC  
TTCGGTAACTCCGGTGGCCCTGGTGGCGATGCCTATAGCTTCTTCGGCAGCCAATCCATG

AACTGGCCAGAAGCCATGTACCAAAACTACGACCTCGTTGCAGTGCAGCCTCGCGGAATG  
 GTCGGCTCCACACCGGTTAACTGCGACAACATCGCACCAGGATACGATTTCTCTCGCTG  
 CTCACCCGCGAAGGCGCTTTTCGTTAAAGAATCCTGCGAGATCGGCACCCCGGCTACACC  
 TCCAGCCTGACCACCGACAACACCGCCAACGACTGGGAGCGCGTCCGCCAAGCACTTGGC  
 GATGACAAGATCTCCATCTTCGGACTGTCTTACGGAACCTACCTCGGATCGGTCTACGCC  
 ACCCGCTACCCACAGCACACCGACAAGGTTGTCTCGATTCCGCAATGGCGCCAGCCTG  
 GCATGGAACGGCATCATGGCCTCCCAAGAACAGGGCTACAAAACTCCCTCAACGACTTC  
 TTCACCTGGGTTGCAGAAAACAACGACACGTATGGCCTCGGCACTACCCCACTAGCCGTG  
 TACCAAACTGGTCAAACAAGATCGTCGCCGAAACCGGAACCAACCCAACCGTTGCTCCA  
 CCACCAGCACAAAGTTGGCGATGTCCCACCAGCATTCGCATGGGCGCGCCAAGCAGGCGCA  
 GACATGATGACCGCCACCAACCCAACCTCCGTGCAACTCCAGGGCCTTGCCACCCAGCTC  
 CTAACCCCTGGATCCAACCAGTCACTGAGCCCTCTGCTCAACGTACCCGCGCCTACATT  
 CCACAGCCATCAACCTGGCCCATGCTCGCAGGCGCCATCTCAGGGCAAACACCCATCCCT  
 GACGTAACGTGACACGGCGCAGACCCATACGTCAATCGAAAGCATCAACGCCAGCGTCAAC  
 ATGCAGCGCATGGTCATGTGCAACGAAAACACCGTCGCACAGACCCAGTAGCAATGGCA  
 CGCATGGCCTGGACAAGCATGGTCACCGGCGACGTCTTTGACATTTACTCCGTTAAATTC  
 AGCTCCGGACAAGCCTGCTCCGGCATCACCCCAACAAGCGGCGGCCAGCCAACCGACGGA  
 TCTCAACTAGCAGTCCAACCACTACTCTCCAGGGAACAGCGACCCACAAACCCCATAC  
 TGGACCCACAACGAGCTTGCCGACGCCATGAACGCCACAGTGGTCACCGTCAACGGACCA  
 GGACACGGCCAATCCATCGGCGGCACCAACCAAGCAATCAACGACATTGTTGTGGACTAC  
 CTCGCGACCGGACACACCGACGCCACCTGGGTGCAAGGCAACACACCCACCCCAATTACG  
 GCTGGC

>RXN00982-downstream  
 TAATTGCTTTCCACTTAGTAGAT

>RXN00983-upstream  
 GTGAGAAAACAGTGGCTCAAATATCGACATCTTCTACTCACAGTTCAACCTGTCTGGCT  
 GGAGGCCGCTGCATTGGTGTGACGCGCGATGAAACGTCC

>RXN00983  
 GTGACTGCAGGTGAAACCACCACTATGAATGTCAGTTGACCAATCCTTTTCGACAACGCA  
 ATTTTTGACCGAGCAGTCTCCCTTGAACGTCCCGAAGGATGGCAAGCTGAGGATGTTCTG  
 GTGTGATCCCATCTGGAGAATCTGTCACAATCCCAGTCCAGGTACAGCACCGCTGGTA  
 GCCGACAACGGTGAACCTCCAGTGGAGGTGTCCATTCTTGATGGAGCAGACCGCTACACG  
 GGTCTGTCTCAATCTCACTGTTTCAGGGTGGGCAAGAACCTGCACCAACTTCAGTGAAGGTG  
 AGCATTCCAAATCTCAAGGACACTTATGTAGCAGGGGAGAAGATCAGCATTAACTTTGCG  
 GTCAACAACCCGTTTGACGTTACGGTTAATTCGGTGCCAAGCCTGGGGGAAGGCGAGAAC  
 TGGATGCCTGCAACCTACGCGGATTTGATCCAGAGCAGGGTACTCCCAACTGTCTGTAC  
 AAGAATTTAGGCGCGAATAAGAGCTATGACTGCACCACAACCTATGAAGTCAGCGAT  
 TTGGATGTAGAACGCGGATACGTGGATATTCCAACGGTATGGACGTTTACTAACTCCGCA  
 GGCGAAACGGTATGGTCCAAAAACGTTGATGTGCCTCGAGTTGAACTCAATGGAACACAG  
 GATGCTGTCACTGATGCAATCGTAACGGTTGATCCCATCAACCCAGTTTATTCCAACGGC  
 CAGAGCCAACTGTTGAGGTCCAGGCTAATGTCACCTCAGAGGGAGATCTGCCAGCTGGA  
 TCTAAGGTGGCCTTTTATCTAGATTTCATCGCCCATTTGATACCGCAGCTGTTGATGCGGAA  
 GGGCATGCCAGCATCTCGATTGATGTGGACAACATCGCAAGCGAGCAGCCTGAACGCACA  
 TTTGAGGTTTCGCGCCCGACTCGTCGTTCCAGAAGATGCACCACGATCAATCGCGCGTGAT  
 GCCTTGGCACGTTTTTACAGTCTGTCTGAACAAGTGCAGCAGAACTCCTTGGTGATCATG  
 AATCATCCAGATGTGTTTTCTGATGGACAAACAAAGACTATTGTTCATCGCAGCGAAGGCG  
 ACAGCACACGATGGATCGCCGGTGGCTATCGGTACTCTCATTGCATTTTCGCGTCAACGGT  
 ATTGAGCGGGACGTGGTTCCAACCTAACGCGCAAGGAACAGCAAAGCTTCAGCTAGACCTC  
 AAGCCAGTAAATACTGAAGACGAGGAATATGAAGTAACAGTTGAAGCCGAGCTGGATGAA  
 TTGACTGCTCAGACCACGTTCAAAGTACTTGCTGGTGAGGAAGAGGAACCCACCAGCACC  
 GAAGAACAACCGTCAGAACTGAGCAGCCTTCTGAACCTGAAGAGGAATCGACTGGTGT  
 GCTGGAAGCTCTAACGGTGGCAGTTTTGTGCGCCTTTTAGCGCTGCTGGCAGCGCTTGGT  
 GGCATCGTCGGTGCAGTCCTCGGATTGCTTAAGTTG

>RXN00983-downstream  
 TAGGTGGCTGGGGGCGTCGAAAA

>RXN01014-upstream

TCTTAAAGTTTTCTAGCAATCCACACTAGGCGCGAACTATCGTGGTGTCATTGCGCACCT  
TCTAAGGGTAGCGCCCCCTCAAATTTCAAGGAGCATTAAA

>RXN01014

TTGACGTCCACTAATCTCACCCGACAGGAAGCTTCGGATCGTTTCGAGGTTACTGAGTGTA  
GAAACTATGACATTGCACTTGATCTCAACAACGGTGATGAGTTTTTTAGTTCCCTCCACC  
GTTGTCAGCTTCACTGTCAGGAAGGCTGGCGATACCTTTATTGATCTCCGCGCAGCAAGC  
GTTGAGGAGGTTTCGCTGGACAATGTGTCCATCAAAGATGAGGCTCTAACCCCTTGGAAG  
AACGGCTACGACGAGACGTTTCGGCATCGCCCTGAAGGGTCTTACTCCCGGCGCGCACACC  
TTGCGGGTAACGGCGTCTATCCCTATTCCCGCACCGGTGAAGGCCTGCACCGCATGGTG  
GATCCAGCAGACAATGAGGTGTATTTGTACACCCAGTTTGAGACCGCCGATGCCAAGCGT  
ATGTTTCGCGTGTTCGATCAGCCAGACCTCAAGGCTACCTATGATCTGAACATCAAAACT  
CCTAAGGGTTGGAAGATCATTTCCAACCTCTGAGCAGCAGGTTTCCACTCAGCACACTGAT  
TACGATACCCACATTTCCCGAGTGGACTATCCCTCTCCACCTACCTGATTGCGGTGTGC  
GCGGGTCGTTACCACGAGGTGTGCGATGTCTGGAAGGGTACGCTCACCCACCATGCAGAA  
ACACCTGCCGATCAGCCAACTGAGCTGACTGTTCCGCTTGCTCTCTACTGCCGCACTTCT  
TTGGCTAAAGATCTTGATGCGGTGCGTCTGTTTACCGAAACGAAGCAGGGCTTTGATTGG  
TACCACCGCAACTTCGGGTGTGGCGTACCCATTTCGGCAAGTACGATCAGATCTTCGTCCCT  
GAATTTAATGCTGGCGCGATGGAGAACGCCGGCGCTGTCACCATCCGCGATGAGTACGTT  
TTTGATCCAAGGCAACCCGTTACCGCTACGAGCGCGCGCTGAAACCATCCTTCACGAG  
CTCGCTCACATGTGGTTTCGGTGTGCTGGTGACCATGCAGTGGTGGGATGATCTGTGGTC  
AACGAGTCTTCGCCACTTGGTCCGCGCAATTTCTCAGGCTGAGGAACTGAATACAAC  
ACTGCATGGGTGACTTTTCGCCAATGTGGAGAAGTCGTGGGCGTACCAGCAGGATCAGCTG  
CCTTCCACCCACCCGGTGTCTCTGACGGATACGACATTGAGACTGTGACACAGAACTTC  
GACGGCATCACCTACGCAAAGGGCGCCTCGGTGCTCAAGCAGCTGCAGGCATACGTTGGC  
CGTGAGGAATTCTTGGCAGGCGTACGCAGGCACTTTGCCAACCACGCATGGGGCAACGCC  
AGCTTTGATGATCTGCTCGGCGCCCTCGAGCAGTCTCCGGCCGCGACCTCTCCGACTGG  
GCAAACCAAGTGGCTCAAGACCACCGGCATCAACACCCTCGGCGCAAAGTTTACCACCGAC  
AACGGCAAATACACCTCCTTCTCCGTACCCAGACCGCGCGCGCGGGTGCCGGTGAG  
CTGCGGACTCACCGCATCGCGGTGGGTCTTTATAAGCTTGTCGACGGATCCCTCAACCGC  
TACGCACGAGTAGAACTTGACTGCAGTGGCGCGTGCACAAGCGTTGAAGAGATCGTTGGA  
CTTGAGCAGGCTGACTTCGTGCTGGTCAACGATGATGATCTGACGTATGCGCTGCTGGAT  
CTGGATGATGATTACGCAATTTTGTATCGACAATATTGATAAGTTCAGCGACCCTATG  
CCTCGCACGCTGGTGTGGTCCGCTGCGTGGGAGATGACTCGCGCTGGTCAGATGAAGGCT  
CGTGATTTTCATCGCGCTGGTTGCTCGTGGCGCTGCTGCGGAACTGAAATTGCTGTGCTG  
GAGCGCATTCTCGCGCAGGCTACCTCTGCGCTGAAGAGCTACGCCGACCCAGCGTGGGCA  
GAAGCAACTGGAAATGACCTGCTGGCCGATGCTTTCTTGAGGGTGCTCGCTCCGCAGAA  
CCAGACTCCGACACTCAGTTGGCGTTTATTGAGGCTCTGGCAAAAGCAACGCTCAATGAT  
GCTGCTGCCGATTACTTCCGCGACATTCTTCCCGCAACGTCGAAGGCCTGACCGTGAT  
CCTGACCTGCGTTGGTGGGCACTGACTGCGCTTATCGCCCGTGGTGACATCGAGGCTGTC  
GAAGATGCAATCGCCGCTGAACTTTCCCGCGACAACCTCCAGTGCCCTCCTTCCTCGCATCA  
CTTCGAGCCGGTGCCGCTGTGAACACTGAAGAAGTGAAGGCTGCTGCATACAAGCATGTC  
ACGGCAGTTGATAGTGGCCTATCCAACCTGGAGCTGCGCCACAAGATTGAAGGCCTCACA  
TTCAGTGGCTCTTCTGAACTGCTGCAAGCCTACAACGAGCAGTACTTCGAAATCCTTGAT  
GATGTGTGGGCGAACTTCTCCGGCGAAATGGCACAGCAGATCGTCTCGGACTGTTCCCT  
TCATGGAACGTTTCCGAAGAGGGTCTCAAGCGTACCGACGAGTTTCTTGATGGCGAACAT  
GTCGCAGGCATCAAGCGAATTGTTTCCGAATCCCTCGACCGCACTGCCCCGTGCTCTGCGC  
AACCGTGCGGCAGATGCTGCG

>RXN01014-downstream

TAAGTAAAAGATTCTCAATCCCA

>RXN01046-upstream

TAGCGATCCTAGGCAAAATGCACCAGCTAACCCACCGCTCAACCGCCATCTGCCCCAC  
CTCACACTCATCACAGCAGGGTCTCCCTCCGGGCGCCATT

>RXN01046

ATGATCCCTTTTCCAGGGCAACCGCAGCAGCAAAGCGCACCCAATGACGAGACCCGTTTC  
 ATCGACCTTAACGAACGTCTATAAGATGATGAACCGCCCTGTTTCGCGATGATGTTATT  
 GATCAAACCTCTCGCTATTTTGATCAGTAAAAATAAGCCCAATGCGCTACTCGTTGGGCTT  
 GCCGGTACAGGTAAATCCCGTATCGCAGAAGATATTGCGCGCCGCTTGCCAATGAGAC  
 GTATCTATTCCCGATCAGCTTGTCGGCCACCGTATTCTTGATGTCTCCATTGCAGAGCTT  
 GTTGCTGGTGTGGCGTTGTTGGTCAGCTCAAGAAACGCATTCTGGATCTCATCAAGTAT  
 GCGACCGACCCGAGTAACAAAGTCATTATCTTTATTGACGAGATTCACCAAATTGCTGGT  
 GATCAGTCCAGTCACAGTGGATCGCAAGCCAAAGTTGCTCAGATTCTCAAACCCTATCTT  
 GCCCGTGGTGACCTTCGTGTTATTGGTGCCACCACCACCCAGGAAGCTCGTGACTTCGAT  
 CATGATCCAGCCCTCAAACGCCGTTTTAGCAGAGTAAATGTCGATGAATTTGATCGAGAT  
 CAAACGCTCACTATTCTTCATGCTGCACGTGATGGTTACCTCAAACATTTCAACAACGCT  
 GTCACGGTATCTGACGACGTACTGGGCTATGTCTACACCTACTCGCAGCAATTCACCCCA  
 GGCAATACAGCACAACTGATGCAGCACTGACGCTGTTTGATAAGGCGTTGGCTTCCCTA  
 ACTATGGAGAAACAGCGTCTGATCAACAACCATGTCAATGCGCCGTCGCTCAAGTTCCCT  
 GTGTGAGAAAGGCACATCCATAACACCGCTCGCAAACCTGCCTTTGGCTCTCAAGTGCCA  
 GCCTCCATCAATACTGATGATGCTCGTGACAACTCGAAACGTTGTTTGGTCAAGATCAT  
 ATTATTGAGCCAGTACTACCGCTATCAAGCGTGAACAGCTTGGTATTTTCCCTCGCACC  
 AAACCATGAGCTGGGTGTTTGGTGGTTCATCTGGTGTGGGTAAAACAGAAATGGCGCGT  
 ATTCTCTCTCGCGCCATTAATGGCGGCGATCCCATCATTATCAATGGTCCCGAATACATT  
 AGTCCCTGAGTCCATTACTGGCCTTATCGGATCATCCGATGGCTATATCGGCTCTAATTCT  
 AAGCGTGCTAAACCACTCGACCCGCTGATTTCTAATCCGCGTCAGGTGATTGTGCTCGAT  
 GAATTTGAGAAGTCTCACCTCATTTCCAGCAATTGTTTCATGGCAGCTCTTGATACAGGC  
 ACTATGGCGATGGCTAATGGCAGCAGCATTTGAATTTCTCTCAGGCCATTATCATTGCCACC  
 ACCAATGCAGCCCGCGACAAAATCGGTGCTGACAGCTTTGGATTGATTTCAGATAAATCA  
 GGTGTCCTCGGTTCTGCTCAAGCAGCAACTGATCCGCGTGCACAGGAACGCCTCAAGTCA  
 CTGATGTCCAAGGATTTCTGTTGAACTGCTCAACCGTTTCCAGAATATCTTTGCCTTCA  
 ACCGCATTGATGCAGGCACCTACCGTGAGATTCTGGACAATCTCTACCAGCGTCGCCGTG  
 ACGCCGTGCTGCTTAGCCACCCCGCATTACGCAGCACAGATCCCTGCAGATATTGATTCA  
 GACACTCTTGATCAGCTGGTGGAACACCTTTATCTCAGATTTTGGTGCACGTCCTGCT  
 GCACGCACCATCGAAGACCACATCGCATCCTTGCTGATG

>RXN01046--downstream  
 TGACCAACCTTTTAGGAGTACAT

>RXN01120-upstream  
 ACAGGTAAAGCGCTAAGATGGAACAACCCATTGCCAATATTGTTGGTTAGAGTTGTACGC  
 AGTAAATCTTTTCAATCGTGGAAGCGGGTCTCACAGTCTA

>RXN01120  
 ATGGCAGTATGCAGGAAAGCGCCGATCTGCTCAAATGTTTCTTCTGCGGAAAGAGCCAA  
 AAGCAGGTAAAAAACTCATCGCGGGTGGCGCCGATATATCTGTGATGAGTGCATTGAG  
 CTGTGCAACGAGATTATTGAAGAAGAACTCGGTCAAGCTCAACACGACGAGCAGGAGCGC  
 AACGAGCTCCCCAAGCCGTCGGAGATTTACGCTTCTTGATACTTATGTCATCGGGCAG  
 GACCCAGCAAAACGTATCCTGTGCGTTGCGGTGTACAACCATTACAAGCGTCTCCGCGCA  
 TCGGAAACCATCGGTGCTCGCAGGAATGACGAGCCTGAAACCGAACTGGTTAAGTCCAAT  
 ATTTTGATGCTCGGCCCCACTGGCTCCGGCAAGACTTTTCTTGCCAGACTTTGGCAAAG  
 CTGCTGGATGTTCTTTTGTATCGCGGATGCCACCTCACTGACCGAGGCTGGTTATGTG  
 GGCGAGGATGTGGAAAACATCTTGCTCAAGCTGCTTCAGGCTGCTGATTTTGATGTGGAA  
 CGTGACAGCGCGGCATCATTTACATCGATGAAGTGGACAAGATTTCCCGCAAGCTGAA  
 AACCCATCGATCACTCGCGATGTTTCCGGTGAAGGCGTGCAGCAGGCACTGCTGAAAATT  
 TTGGAAGGCACTGTGCGCCGAATCCCACCGCAGGGAGGACGCAAGCACCCCAACCAGGAT  
 TTCATCCAGCTGGATAACCAACATTTTGTTCATCGTTGCTGGTGCCTTCTCTGGTCTG  
 GAGAAGGTCTCGCGGACCGCAATGGCAAGAAAGGCTTGGGCTTCGGTGTGGAGGTCTCT  
 TCCAAGAAGGAAGAAGCCAACATTGTGGATATCTTCAAGGATGTCTCCCTGAGGACCTG  
 GTGAAGTTTGGTCTCATCCCAGAAATTCATTGGGCGTCTGCCAGTCGTTGCCACCGTATCC  
 AACCTGGATCAGAAATCTCTGGTCAAGGTTCTCACGGAGCCTCGTAACTCATTGGTGAAG  
 CAGTATCGACGTCTGTTTGAAATGGATGACGCTGTGTTGACCTTTACTGATGATGCTTTG  
 GAGGAGATCGCTAATCAGGCACTCGAGCGCAAACTGGCGCCCGTGGCCTGCGCGCGATC  
 ATGGAAGAGATCTTGGTTCGATCATGTATGACCTCCAGACCGTAAAGACGTTGGCGAA  
 GTCATCATCAACGGTGCCGTTGCCCGTGGCGAAGCCGAACCAGAGATGTTGGAAGCTGTC

GCAGAAGAAAAGACCGCG

>RXN01120-downstream  
TAGTTGGCAGGAGTTATCACCGG

>RXN01145-upstream  
TAATGTAGTTGTCTGCCCCAAGCGAGTTAACTCCCACGATTTACAGTGGGGGGCAGACAT  
CTTTTCACCAAATTTTTACGAAAGGCGAGATTTTCTCCC

>RXN01145  
ATGGCTATTGAACTGCTTTATGATGCTGACGCTGACCTCTCCTTGATCCAGGGCCGTAAG  
GTTGCCATCGTTGGCTACGGCTCCCAGGGCCACGCACACTCCCAGAACCTCCGCGATTCT  
GGCGTTGAGGTTGTCTTGGTCTGCGCGAGGGCTCCAAGTCCGCAGAGAAGGCAAAGGAA  
GCAGGCTTCGAGGTCAAGACCACCGCTGAGGCTGCAGCTTGGGCTGACGTCATCATGCTC  
CTGGCTCCAGACACCTCCCAGGCAGAAATCTTACCAACGACATCGAGCCAAACCTGAAC  
GCAGGCGACGCACTGCTGTTGCGCCACGGCTGAACATTCACTTCGACCTGATCAAGCCA  
GCTGACGACATCATCGTTGGCATGGTTGCGCCAAAGGGCCCAGGCCACTTGGTTGCGCGT  
CAGTTCGTTGATGGCAAGGGTGTTCCTTGCCCTCATCGCAGTCGACCAGGACCCAAACCGGA  
ACCGCACAGGCTCTGACCTGTCTACGCAGCAGCAATCGGTGGCGCACGCGCAGGCGTT  
ATCCCAACCACCTTCGAAGCTGAGACCGTCACCGACCTCTTCGGCGAGCAGGCTGTTCTC  
TGCGGTGGCACCGAGGAACTGGTCAAGGTTGGCTTCGAGGTTCTCACCGAAGCTGGCTAC  
GAGCCAGAGATGGCATACTTCGAGGTTCTTCACGAGCTCAAGCTCATCGTTGACCTCATG  
TTCAAGGTGGCATCAGCAACATGAACACTCTGTTTCTGACACCGCTGAGTTCGGTGGC  
TACCTCTCCGGCCACGCGTCATCGATGCAGACACCAAGTCCCGCATGAAGGACATCCTG  
ACCGATATCCAGGACGGCACCTTCACCAAGCGCCTCATCGCAAACGTTGAGAACGGCAAC  
ACCGAGCTTGAGGGCCTTCGTGCTTCCTACAACAACCACCAATCGAGGAGACCGGCGCT  
AAGTCCGCGACCTCATGAGCTGGGTCAAGGTTGACGCTCGCGCAGAAACCGCT

>RXN01145-downstream  
TAAGTTTCACCCCTTTGACGGCT

>RXN01152-upstream  
AGTGAAGGATCTGATGTGGTTTGAACAAGCCCTGGAAGCCTATCTGGTAAATTAACGCCG  
AGTTCAATCAAGACAAGCACACAGAAGAAAGTGAGGGCTC

>RXN01152  
ATGCCCTACTCAGGTCCGTTCCAAGCAGGCGACCGGTTTACGCTCACCGACGCTAAACGC  
CGCCATTTACCATCATTTTGAACACAGGAACCACTACCACACCCACCGTGGACAAATC  
GCACACGATGACATCATCGGCGCGATGAGGGCACTGTTGTCCACTCCACCATGGGCTCT  
GATTACTTGTGCTTCCGTCACCTCATGGTTGATCACGTGCTGAGCATGCCTCGTGGCGCT  
GCAGTTATTTATCCAAAGGACTCTGCACAGATTCTGGTCGAGGGCGATATTTTCCCTGGC  
GCCCCAGTTCTGGAAGCTGGCGCTGGTTCCGGTGCCTGTCCATGGCGCTGCTTCGTGCA  
GTGGGTGAAAAGGGCAATGTCATCTCTACGAAATCCGTGAGGATCACCTGGAGTACGCA  
GTCTCCAACGTGGAGGAGTACTTCGGTGAGCGTCCAGCAACCTGGGATCCACGTCTTGGT  
GACCTGAAAGAAGTCAACGTTGAGGATCTCGGCGGACCTGTTGACCGCATCATCTTGGAT  
ATGCTTGAGCCGTGGGAAATGCTGGAGACCTGCAAGGATCTTCTCATCCCTGGTGGTGTG  
TTTATGACGTATGTGGCGACCGTGCCACAGCTGATGAAGGTGATGGAAGGCATCCGCGAG  
CAAAAATGCTTCACGGAGCCACGCGCTGGGAATCTTTGGTTGCTGATTGGAAGGTGGAG  
GGCTTGGCAACACGCCCTGAGCACCGCATGAATGCCACACCGCGTTCTTGGTGTGACG  
AGGCGTTTGGCTGATGGCGTGGAGCCTCCTCGTCCGCGAGCGTAAGGCACGTCTGA

>RXN01152-downstream  
TAAAAAGACCTAGTTGGAGGGCG

>RXN01166-upstream  
ACCGTACCCACAGACACACCAGAATTAACAGAAACAGACTGAAAAACAACATCGCTCGAC  
ATGCGCGTAATCCTAACCCGCGCACACTAATGTGGCCGAT



&gt;RXN01166

ATGGGGCTACACCAACCTCAACGACACACGGGTCTTGCGCGCCGGGTCATGTGATGCCTGG  
TGGCGCACGATGTCTCCGCTAGTGCAGCAGGGAAGTGAGGCAGTCTTTCGGCGCATCATG  
GGTCTCTCGCGGCTCCTGATCGGAAACCTGGCTTTGACGATGTCCACATTTTCGGCGCA  
GCTGTTTCGAGTTCCCGGTCTAAACACGGCACGTTGGTCAATGCTGCACCTTGAAAAGTT  
TTGGGCGCACGGGGCGAGCCCAACCCCGGAGTTTCGTACCGTTTTGAATACATCACCGGT  
GATTCGCGAGGTCGAGCCATCACTGCGACCGGCGCTGTCTCTTTTCCACACGCCCTTG  
ACAACCGGGCCCGCTCCCGCGATCGCCATGGCTCCATCCACCAAGGCGTCGCACAGCAC  
TGCGATCCCTCCACACCTGCGCCATCGGACTCAACGCATTCTATGACAAACCTTCGAC  
GCAATCATTGCTTACGAACTCCCCGTCATCCTCTGGTTTTCTAGCTCACGGACTTGACGTT  
GTGTTTCATCGATTACCCCCGCGACCCCGCAACCGGCGTCCAATACTATTGCGATTCCATC  
GCTGCAGCTAAATCGCTTCTCGACGCCGTCTCGCCTCCAGACAACTCGGCCTTTCACCG  
GAAGCACCGCTTGGCCTGTGGGGATTCTCCCAAGGAGGCGGCGCCACTGGCTGGGCTGCA  
CAATTGCGAGATTACGCACCTGATGTCCGCCAAAGGCAGCGGTCTGTGGGCGCTCCACCA  
GTGGATCTCTTCCGCGTCTTGGACACTGTCGACGGCGGATTGCTCACCGGAGTGATTGCC  
TACGCCATCGCGGGACTTGCACTGAACCTCTTCAGAGATGTTTGAGGAAATCATGTGCGGTG  
TTAAATGAACGCGGAGTCAGTGATGTGCTGAAAAATATCACCAGCTGCGCGGGAGGTTCC  
TTGTTGGCCAGTGGCTACTCGTCTTCCCGCGGGTGGACACATCAGGGCACGCCGCTGGCA  
GACATTCTGGACGATCTGCCACTTGTGTGCTGAGTTTGGGAAGCAAAAGCTGGGTCTGT  
GTGGCGCCAGAAATCCAGTGCTGTTGTGGGGCTCTAAAAATGATGATGTCATTCCCATT  
GATCCCATTAGGGAATTGCGTGATAGCTGGGCGGACAAGGGTACGCCATTGACCTGGCAT  
GAATCCCAAGCGCGCGTGTGCCAGGACGCACAGGTCTCAACCATTTCGGGCCCTATTTT  
AGAAACCTGGAAGTACTCGGGATGGCTCATAGATCATCTTGTC

&gt;RXN01166-downstream

TGAGTGCCGTTTTAAAGGCTCGG

&gt;RXN01181

TCTGTACTGCTCGCTCGCGACTTGGTGAACACCCCTTCATCACACCTGTACCCAGAGTCC  
TACTCAGTAATTGCATCCAACGAAGCGTCCAAGCACGGCTTGACAGACCACCATCCTGGAT  
GAGAAGCAGCTTGTGATCAAGGTTTCGGCGGCATCCTCGCAGTCGGTAACGGCTCCTCC  
CGCAAGCCTCGTCTGCTGCGCATCGATTGGAAGCCACGCAAGGCTAAGAAAGTCGATCGCT  
TTGGTTGGCAAGGGCATCACCTTTGACACCGGCGGAATTTCCATCAAGCCTGGCGCAAGC  
ATGGAGAACATGATCTCCGACATGGGTGGATCCGCATCCGTATTGGCCACCATTATCGCT  
GCAGCTCGTTTGAACCTGTCGATCAACGTCTTCGCGTTCTACCAATGGCTGAGAACATG  
CCATCCGGTGACGCTTTCGCCCCGCGCATGTCATCACTCATTTCCGGTGGTATCACCTCC  
GAAATCTTGAACACCGACGCTGAAGGCCGCTCATTCTGGCAGATGCCATTGCTTACGCT  
TCTGAAGATAAGCCTGACTACCTCATTGATGCGGCAACCCCTGACTGGTGCTCAATTAGTC  
GCTTTAGGCCTGCGGACTTCAGGTGTCATGGGTACCGATGAGTTCCGCGACAGCGTTGCC  
AAGACTGGCCGCGAGGTGGCGAGCAAGCATGGGCAATGCCTCTTCCTGAAGAGCTCGAT  
GAGCAGGTTAAGTCCCCTGTGCTGACCTGCGCAATGTCACCAATTCCCGTTTCGCAGGA  
ATGTCTGCTGCGGGTCGTTACTTGCAGGAATTCGTTGGTGCCGACATCGAGTGGGCTCAC  
GTCGATATCGCTGGCCCTGCATACAACACTGCTGGTGAATTCGGTTACACGCCAAAGCGC  
GCAACCGGACAACCAGTGCGCACCTTCGTTTCAGGTTCTGAAGGATCTGTCGGAAAGC

&gt;RXN01181-downstream

TAAACGCTAGTTAAAGATCAGGA

&gt;RXN01226-upstream

CGTGCGGGGAAATTTAAAGTGATGACAGTGACGATCATCATGGAGGTTTCCTCACATGG  
TGGCGGGGCTGTTTTGCTTGTGGTGGACTCATGGTTGG

&gt;RXN01226

ATGGGGGATGTGAATAACTCTCCCTTTTAGTTGTTGGCCTGGGAAATCCCGGCCCGAAA  
TACGTTGGCACCCGCCACAATATTGGCTTTGAGGTTGCAGAAGAACTAGTGTCGCGCAGC  
TTTGATCATTTAGTGTGCACAAGCGCTCCAACACCGATATCGCGCAGCTTCCCTGGGCTA  
ATTGTGGCCAAGCCGCGCAGCTTTATGAACCTGTCGGGAACTCCGATTTCGGGCGCTGTGT  
GACTTCTTTAAGATTTCCCGAGCCAATGTCACTCGTGGTGCATGATGAATTGGAGCTTGAT  
TTCGGCTCAGTGAAGCTACGTACGGGTGGCGGGGATCATGGGCACAATGGTCTGAAATCC

ACGTCCAAATCTTTGGGAAC TAAGGACTATTGGAAGCTCAGCATGGGTATCGGTAGGCCA  
CCGGGTCGGATGGATCCGGCAAGTTTTGTGTTGAAGCCTTTTGGCAAGCAAGAACTGGCG  
GATATTCCCATCATGGCGGCTGACGCTGCAGATCTCGTCGAAAAGCATTTCAGCAGGGC

>RXN01226-downstream  
TAGCTACTTGCGCCGCGCCTCTT

>RXN01267-upstream  
TGCTAGTTTTAAAGAGGCGTTGAGGGGTAGTATCGCGTAAGTTTATTAGTGGTTAGCGTA  
GATTTTTCGAATTGAAGATGTTTCTGAAAGGTATTTAGAT

>RXN01267  
ATGTATGCAGAAATTAATGGCGGTTTTATTCCAGAGGGCACCGTGCGGGTAAGCGGCGCA  
AAAACTCTGCTACTAGACTTCTCGCGGCGGCACTGCTAACCGATGAGGTGGTGCATCTT  
GGTAATTTCCCAACCAAGCTTGTGGATGTTGAACATAAAATTCGCTTTATTGAAGAGCTT  
GGCGGAAAAGTGCATGTCGACCATGATGAGCAAAATTTAGTAGTTGATGCTAAGGATCTT  
GCAGCGCGAGAAATGACTACTGATGAAGTGAATATTCGATTTCGAAGTACTTATCTCCTA  
GCAGCAGCGCAGATTGGGCGTGGGGAAATTGCTCGAGTTCCTTTTCCTGGGGGGTGTGCT  
ATTGGAGGAGGTCTGCTGGCGGACGAGGATATGATCTTCATCTTATGGTCTGGGAACAG  
CTAGGTTGTAAAATCTTGAAGAGATGATCACATTGAAGTAACTGCACCCAGGGCTTT  
ATCGGGGGAGTTATTGACTTTCCTATTTCTACTGTGGGAGGCACTGAAAACGCGTTACTA  
TGCGCAAGTATTGCTTCAGGGGATACTAAAATTGCCAATGCTTATATTACCCCTGAGATA  
ACTGATCTTATTGAAGTCTGCGACGTATGGGTGCGGAGATCACTGTCTACGGTACCAGC  
CGTATTCATGTAAAGGGTCGAGCAGGTCTTTTGCAGGGCGCATATATGGACGTAATGCCG  
GATCGTATTGAGGCATTGACGTGGATCGTGTATGGAATTATTTACGGCGGAAGGATTACC  
GTCGAAGGTGTTCCATTTAGCTCGATGGAAGTTCCTTTTATCCACCTTGAGAAGGCTGGA  
GTGGATCTTTTCCGTAATTCAAGTTCGATATATATTACACGAGATGCTTGCCTTCAGGC  
TCAGTTCAGCCATTTGAGCTAGCGTGTGGAAGTTCACCCCGAGTAATTTTCGACATGCAG  
GCACTTTTTGTTCTTTTAGGATTAAAAGGTGCAGGAAGTTCACGCGTCTATGACTATCGA  
TACCCAGAAAGAATTGCATTTGTTGAGGAATTGACAAATCTAGTTTCGGGCGACAAATTA  
AGTGCAGAGGCTGGCAAGATCACTATCCAGGGAGATGCTACTTTCCGGCCAGGATATGCG  
AACTCACTGATCTACGTGGTTCTATGGCTGTTGTTTTAGCGGCGCTTTGCGCTGATGGA  
AAGTCCACGATTAATAACGTCCATATGGCGTTACGTGGGTACAACGAGTTGGATAAAAAA  
CTTCGTTTACTTGGTGCGGATTTAACTATCAGAGAAGGCGAAGTTCCTTCACCT

>RXN01267-downstream  
TAAGAACGAAAGTTTTACATTGA

>RXN01277-upstream  
TACTACTCGGTTACGTTTACGTTCGGCTGATCCAATTGGAGGCGCCCTCGGAAGCCGCCCT  
TAAAAACCTGCCGGTCAAAAGATCACTAACCTGAACTTC

>RXN01277  
ATGACTGATTACACGTTCCCTCGAAGACATTGACACCCCGGAAGCGCTCGCGTGGGCGGAA  
AAATGGTCGGGGGAAAGCGTCGAAAAGCTAAAAAGCCAGCCAAGGACGCCCTGGAAGCC  
AGGCTGCTGGCTGCGTTGGACACCGATGATCGCATTGCCTACGTGAGCCGGCGCGGTGAG  
AAGCTGTACAACTTTTGGCGGGACGCGCAGCATCCGCGTGGAGTGTGGCGCACGACCAG  
TTGGAGTCTGATGAAAGTGACAGCCGGAGTGGGACGTGCTCATTGATGTGGATGCGTTG  
GCGGAGGATGAGGCGGAAAAGTGGTATGGAAGGGCGCGGTTGTGCGCTCGCCGGAGTTT  
GATCGGGCGTTGGTGAAGTTCTCGCGGGGCGGGGCTGATGCGACGGTGATTAGGGAGTTT  
GATCTGGCCACGGCTGCTTTCTGTGGATGATTGCGCGTTTGAATTGAAGGAGGCGAAGTCC  
GATGTCACGTGGGTTGATCTGGATACGTTGCTGGTGGGCACGGATACCGGCGAGGGGTCA  
CTGACGGATTCTGGGTACCCGGCGCGGGTGTCTACGTGGAAGCGTGGGACTCCGCTTGAG  
CAGGCGGAGTTGTTCTTTGAGGGGTGCGGTGAGGATGTGGCGACTCATGCGTGGCGGGAT  
TCAACACCTGGTTTTGAGCGGACGTTTGTGTCAAGGTCGTTGGATTTCTATAATTCGGAG  
ACGTCGCTGGAACCGAGGGTGGCCTGGTCAAGCTTGATGTGCCGACCGATTGCGATGTC  
ATTGTGAAGAAGCAGTGGATTTTGTGAGTCTCGGACGGATTTGCTGGGATTCCAGCA  
GGTGGCTTGGGAGTGTGCTGTTAAAGGAGTTCTTGAGGGCGGGCGGATTTTCAGCCT  
GTGTTTACGCCTACTGAGTCGACGTGCTGCAGGATTGGCCACGACAAAGAATTTCTCTG

GTTTTAACGCTCCTTAATAATGTCTCCACAGAAATCGTCACAGTGCCGCTCAATGATCCG  
 ACAACGGAGCATGAACACATTGACCTCCCAGAGCATGTCACCGCGCATGTGGTTGCTACC  
 TCCCCGTTGGATGGCGATGAAATTTGGGTGCAGGCAGCGAGTTTCACCGAAGCGCCAACG  
 TTGCTGCGTGCGGAGCTGCCTGGTGCCTTGAGGCTGTGAAGAAGCGCCGTTGCAGTTT  
 GAAAATGCTGGTCAGGAGACTCGTCAGCATTGGGCAACCTCGGCGGATGGAACGAAGATT  
 CCGTACTTTATTACAGGAGCCTTCGAGGAGGAACACAAAACACCCTGGTCCACGCCTAC  
 GCGGCTTCGAGGTTTCCCTTACCCCAAGCCACTCCCGACCCGCGGCATCGCATGGTTG  
 GAAAAGGGCTACTACTTTGTGGAAGCCAACCTGCGTGGTGGCGGTGAATTCGGTCCGGAA  
 TGGCATTTCGAGGCAACCAAGCTGAACCGCATGAAGGTGTGGGAGGATCACCGCGCGGTG  
 CTCGCCGACCTTGTGGAGCGCGGTACGCAACGCCGAGCAGATTGCGATTCTGTGGCGGA  
 TCCAACGGTGGTTTGTGACAAGTGGCGCGTTAACTCAGTACCCAGAAGCATTCCGTGCG  
 GCAGTTGTGCAGGTGCCGTTGGCTGATATGTTGCGCTATCACACCTGGTCAGCGGGTGCT  
 TCGTGGATGGCGGAGTACGGCAACCTGACGATCCGGAGGAACGGGCGGTGATTGAGCAG  
 TACTCGCCGGTGCAGGCGGTGGTGGGCGTCGAGAAGCGAATTTATCCACCCGCATTGGTG  
 ACGACCTCAACCCGGGACGACCGCTCCACCCGCGCACGCGCGCCTTTTGTGCTCAAGCT  
 TTGCTTGATGCGGGCCAGGCCGTGGATTACTACGAAAACACCGAGGGCGGCCATGCCGGC  
 GCGGCGGATAACAAGCAGACCGCGTTTGTGGAATCGCTGATCTACACCTGGATCGAGAAG  
 ACTTTGGATCAGCAGGGTAGCATT

>RXN01277-downstream  
 TAATACCTATGATTATGCGAAGG

>RXN01302-upstream  
 TGGGGCTGCGTGGTGTCTTCATCATCGCCACCGCTTTGACCTGGATCTACTACGCCCGC  
 CCGAACGCTCCATTCCCGGGATAAACCGAAAGGCCAATCC

>RXN01302  
 ATGACTACAATACTTCTTCTGGGAAGTCTTCTGAAAAGATCAACCCCTCTTCAAGCTC  
 GGCAGTTTCTTAAGAAAAGGCACCGTTCGGTTCTGAAGGCCAGCAGATTTTCTTCAGGGC  
 GGACGCCAAGCCGATGTGTTTATCGCAACCGATGGGCTTTCGATAAAGTCGTGCGCTCC  
 ACACATGGCGTGAAGTGCACGGGCTCCTGCTCGTGGAAAGTGATGTAAAAGACGGTGTG  
 ATCACCTGGGAATCCCAGGCAGTGGATTACCCAACTACCGGTGCGGATATGCCCCGACAAT  
 GAACACGTGGCTGCCCTTCGGAATCTGGCGACTGGTACAACCTCCAGCTACCTCATGATG  
 ATCCGCTACCCATACATCGGTGGCGTGCTAGTTGATATGTCCGCGAAGCCAAGGAACGCC  
 TGGGCGATCCGGTGCTGGCGTGGCGCGACATTG

>RXN01302-downstream  
 TAGAAACCCCAGAAAAGCGCAAA

>RXN01308-upstream  
 TTTCTGGTACACCTACTCCCAACCCGCATCCGCTACCCATACATCGGTGGCGTGCTAG  
 TTGATATGTCCGCGAAGCCAAGGAACGCCTGGGCGATCCG

>RXN01308  
 GTGCTGGCGTGGCGGACATTGTAGAAACCCAGAAAAGCGCAAAGCATATGTATCCCAG  
 CGGGGCAAAGGTGGCCTCATCCGCGTTTCAGTATGAGGAAGCCATGGAGATTGCTGCGGCA  
 GCCCATGTGTACACCATCCGCCAATACGGCCCCGACCGCATTCATGGATTCACCGTTATT  
 CCCGCAATGTCGAGGTGTCTTACGGTGCTGGTACTCGCTTCTGCAGATGATCGGCGGA  
 GTGGCGCTGTCTTCTACGATTGGTACGCCGACCTCCCACCGCATCACCAAACTTTC  
 GGCGATCAAACTGACCTTCGGAATCTGGCGACTGGTACAACCTCCAGCTACCTCATGATG  
 TGGGGTTCCAACATTCCGGTGACCCGCACGCCTGACTCCCACTTCATGGTGGAAGCCCGC  
 TACAAGGGCACCAAGGTTGTTGTGGTTTCCCCGGATTTCGCTGACTCCACCAAATTTGCT  
 GATGAATGGGCACGCATCCACCCTGGTACTGACGGCGCACTCGCCTTTGCCATGGGCCAT  
 GTGATCTTGAAGGAATTCATGTTGACAAGAAGACGCCGTAATTCATGGACTACATGCGC  
 AAATACACGGACTCTCCTTTCTCGTGAATTAGATGAGCACGGCGATGGCACCTACACC  
 CCAGGTAAATTCCTCACTGCAGACCGCGCAGCTGATATCTCCCCAGCGCTTGCCGCCACT  
 CCAAATGCCACCCACCGTCTCCTTGTGCTGCAAAAAGATGGCTCAGTTGTAGATCCCGGT  
 GGCATGTGCGGACCGTTGGGGTGAAGAAGGCATGGGTAAGTGGAATCTGCGCTTAGAC  
 GCGTAGATCCAGTGATGACTATTGCAGATGTACAGACTGACACCGAAACTGCGGAAGTC

CTCTTCCCCCGCTTCGATCTCCCAGCAACTGCCACCCAAGAAGGCCCCATTGGTGCTGGC  
 ACCATCAGCCGGGGCGTTCCCAACCATCACGTTGAATGGCCGAAAGTACACCACTGTCTTT  
 GATGTGTTGCTCGCACACTACGGTGTGAACCGGAAGAGCTCAACCTTCCTGGTGAGTGG  
 CCTAAGGATTTCCAGGATCCAGTCATGGGTACTCCTGCGTGGCAGGAAGAGCTCACGGGT  
 GTTCCTGCTAATCAGGCGATTGCTTTGGGTGCGGAATTTGCTCAGAATGCTGATGATTCC  
 AAGGGCCGTTCCAGATCATCATGGGTGCTGGTGTGAACCACTACTTCCATGCGGATTCT  
 ATTTATCGCACATTCTTGGCGCTGACCTCTATGTGTGGCACCCAAGGTGTTAACGGTGGC  
 GGTGGGCTCACTACGTTGGTCAGGAGAACTCCGTCCAATGAATGGTTGGGCACAGTAT  
 GCCTTTGCTACAGACTGGCAGCGTCCACCACGTCAGATGATCACCCTGGTTTCTACTAC  
 CTCACCACGGATCAGTGGAGGTATGACAACACTCGTGCTAATCGTCTGGCTTCCCCACTG  
 GCTAATCGTGGCACCGTGGGTGACAAAATGACGGCGGATACCTTGGTGGAATCCATGAAA  
 CGTGGATGGATGCCGTCATTCCCGCAATTCAACCGCAATCCCCTCATCTTGAGCCAGGAG  
 GCGGAAGAAAAGGGCGTGTCTGTTCTGACCATATTGTTTCAGCAGCTCACCGATGGTGAC  
 TTGCAGTTCGCTGCGAGGATCCGGATGCACCGGAAAACCTGGCCACGCATTCTGCTTAAC  
 TGGCGCACAAACCTAATGGGCTCTTCAGCTAAGGGCACGGAGTTTTTCTTGCGCCATATG  
 TTGGGTGTGGATTCTGATGCATCTGCTGAAGAAAACGCGCCGGAGGATCGTCCAAGTTCC  
 ATTGTGTGGAGGGATGAGGCTCCGGAAGGAAAGCTCGATTTGATGCTGACCACGGATTC  
 CGCAACACTTCCACCACCTTGGTCTCGGATATCGTGCTGCCGGCAGCCACCTGGTATGAG  
 AAGCATGATTTGTCCACCACGGATATGCACCCCTTCATCCACTCGTTCAATGCTGCGATC  
 AACCACCGTGGGAGACGCGTACTGACTGGGAGGTCTTCCACGATCTCACCAAAAGAAATTC  
 TCCTCACAGGCAGCAACCTGGTTGGGCACCCAACCGATGTGATCACCGCACCGATTGCC  
 CATGACTCCCCGGATGAGCTCAATATGCCTGGCGGTATCGTGCCAGATATTGATGAGGTC  
 GGGCTGATCCCTGGCAAGACGATGGCCAAGATCATCCCGGTGGAACGTGATTACTCCAAG  
 GTGTATGAAAAGTGGACACACTTGGGACCACTACCGCCAAGCGGGTACCGGAACCCAC  
 GGCACTGCGTTTAACTGACCAAGCAAACCGAGGAGCTGGCGCTGATCAACGGCACCTCC  
 ATC

>RXN01309

ATTGCAGACCACGAAGGTACCCACATCAATTGGGACATGGTCAAAGAACGTTCCGCCGAG  
 GTGATCACCTCACCGGAGTGGACTGGTTCCAAGAAGGACGGACGTCGCTACACCGCGTTT  
 TCCATCAACATTGAATACGACAAGCCGTGGCACACCCTGTCTGGTCGCATGCACTACTAC  
 CTCGACCACGATTGGTTTATTGATTACGGCGAGCAGTTGCCAATCTTTAGGCCACCGTTG  
 GACAAGATCCACATCAATGGTGAGGTGCGCCCTGGCCAGTCGGTCACAGGCACCGACGGC  
 GAACCAGAAGTAACCGTGCGTTATCTGACCACCCACAACAAGTGGTCGATTCCTCGCAG  
 TACTACGACAATCTGCATGTGCTTTCTATTTCTCGTGCGGCCAGGTGATCTGGATGTCC  
 AACAAGGATGCAGAGAACTCGGTATCGCTGACAACGATTGGATCGAGGCTTATAACCGC  
 AACGGCGTTGTTTCTGCTCGTGCGATTGTCTCCACCGCATTCCTGAAGGCACCGTGTTT  
 ATGAACCACGCGCAGGAACGCACCGCTGGCACCCCGCTGAACGAGAAGTCTGGCAGGCGC  
 GCGGAACTCACAACTCTCTTACTCGAATCATGATTAAAGCCGGTCCATGTTGCCGGTGGC  
 TACGGCCACTTAACCTATGGCTTCAACTACATCGGCCAACCGGAAATAACCGCGATGAGG  
 TCACCAGAATTCTGTCGCGCTCCAGGAGGTGCAGTACTAATGAAGGTCATGGCTCAGAT  
 CGCAATGATCATGAACTTGGA

>RXN01309-downstream

TAAGTGCATTGGCTGCCACACGT

>RXN01386-upstream

CTCTATTGTGGTACGCACCATGACTGCTCAACCAGCCACGAGCCGCCAAGGCATCTCCG  
 GTTCAGTACGAGCGGGATCCTCCCGACAATCGCGTCCAA

>RXN01386

ATGTGGGAGGGCCACAATGCTCGCGCATTGCTTCCGCTCGACATTAGAACCATTGACGAT  
 CGCCCCATGCAGGCCTCCGAAACCAACCTGCACCTCCCATCAATGCGGATGGCGAGCGTA  
 TTCGGGACTTCGCAATTTGTGCGAGCGTTTCAGAGAGTTTCATCTCAGAAAACCCACGGGT  
 GTGGTTGCGATCTTCTTTGCGACTGAAGGTGAAGCAGTCTTCTTCCACCGTGGTGGACAT  
 GTAGCGCTTCGGCCAGGTACGGCCATTGTTTACGACGCCGATAGGCCATTCTCCGCGGA  
 TTCAACAATCGCTTCCGCGAGCTAGTTCTCACCATCCCGAAGCAGCGCTACCTTGAAATT  
 GTTGGCTCAAAAGGCCCTGAGCTTCCCGCTATTTTTGAGTTTCGGAGCAACAGGAACCGCC  
 AATGAACAAGCTTTAGCGCGACTAGTTTCAGGAATCTCTACACAGGATTGAAAGTGGCGAG

CCGAAGCATATCGATTCCAGTGGACCTTTAGGAAAACCGTGGAGCGATATCGAGCACGAG  
 GCCCACGGACTTATCCGCAATGTACTTGGCGACGCCACAAGTAGCGAAGAAGGCTTAATT  
 TCTGCAGCCCAGAGATTTATTGACATCAATATTTCCGAAAGTGAATACAAGCGTCGCGG  
 ATTGCTGCAGCCGTGGGAATCAGCGAACGCCAACTAAGTCGAATCTTCTCAGACTCAGGA  
 CAAACTATCGGACGCTACGTCTTAAACACCCGACTGGATTTTGCAAAGGAAGCGCTGTCTG  
 ACACCGGAGCGAGACAAGGTTTCGGTCAGTGAGATCGGTAAGCGCTTTGGGTTTCGCTTCC  
 CCAAGTCATTTAGTCGCACCTTCCGCGAGCGGTTTGAAATGACGCCGCTTCAATGGAGG  
 AAGGAATCGCAGCGTCAATCCTTTCAAGAG

>RXN01386-downstream  
 TGAGGTTTTTGTCTCAGGCGGA

>RXN01461-upstream  
 TCGACTATGACGAGACCCGTGAAAACCTTCGCGCTTGGTTACAAGTTTCGACATCGTCCCTTC  
 GTGGCCGCAACGCCACCCCATTTGAGTAAAGGGTTTTGCA

>RXN01461  
 ATGATTGATACAGGGAAGAACGGCGAGTTCGCTACGAGCAGTCGAATATCATCGATCAG  
 AACGAAGCCGAGTTCGGCATCACTCCTTCACAGACCGTGGGCCCTTACGTCCACATCGGT  
 TTGACCCCTTGAAGGTGCGGAGCATCTCGTGGAGCCAGGTTTCGGAAGGCGCGGTGTCTTT  
 ACTGTTTCCGCAACTGATGGCAACGGCGACCCCATCGCGGATGCCATGTTTGAAGTGTGG  
 CAGGCCGATCCAGAGGGCATCCACAACCTCTGATTTGGATCCAAACCGCACAGCACCAGCA  
 ACCGCAATGGCTTCCGCGGGCTTGGTCGCGCATGGCAAACGCGCAGGGTGAGGCAACG  
 TTCACCACTTTGGTTCCGGGAGCATTCGCGAGATGAGGCACCACACTTCAAGGTTGGTGTG  
 TTCGCCCCTGGCATGCTGGAGCGTCTGTACACTCGCGCATACCTGCCAGACGCCGATTTG  
 AGCACCGACCCAGTTTTGGCTGTGGTCCCAGCTGATCGACGTGACCTCCTGGTGGCTCAA  
 AAGACCGATGATGGATTCCGCTTCGACATCACTGTCCAGGCTGAAGACAATGAAACCCCA  
 TTTTTTGGACTC

>RXN01461-downstream  
 TAAATTGACCCGATCTTTATACT

>RXN01466-upstream  
 AATCCATGATCCCAAACCTACCTCAAAGCGCTTGTAGGCTAAGACTTATGGATACACAACG  
 CGGCTCATTGCGGGGAAAAGCTCATAAAGCAAGGCTAAAG

>RXN01466  
 ATGACGCCAAATGGTCGAGGCAACTCCTCCTGGAGCGTGGCGCAGCATTTAGCAAAAAC  
 CGTACCCCGGGTCTAAACACGTCGACCGCCACACCATCGTGGACTCCGACGGCCTCAGC  
 ATCCACACGTACATGGTTGGCCATGCCGAAAATGCCACGGCAACGGTCGTGTTTCATCCAC  
 GGCTTCACCTTCGCCGCCGAAGTGATTACATGCAGGTGCACTACCTACAAACCTTTTAC  
 CCAAATATTAAAGCGTGCTTATCGACGCCCGCGGCCACGGCGCCACCGGCCAGATCCGC  
 CCAGAGCTCTGCACCATCGAAGGAACAGCGAACGATGTTCTCGAGCCATCCACGAACAC  
 GCACCGACCGGCCCGCTCATTTTGGTTGGGCATTCCCTCGGCGGACTCACGGCACTTAAC  
 CTGGTTAAACGGGCAGATCACTCACTTCGGAAGAGGATCGTCGGCATGGTTCTAGTCGCC  
 ACATCGATCGAATCATTATCCACCCAAGGTCTACCACAAGTCCTGGCATCACCCCTTGCC  
 GACAACATCAAAAACGCCGTCTGAAGCAGCCCCAACGATGCCCCAAAATTCGCCAATAC  
 GCCACCACATTTCTAGCCCCCACCCTGGCCACCGCAGTCTTCCAACGAGACACAAACGAT  
 GAAGTCATCGATTTCCACGCCGCCATGATCCACGAAACCCCTTGGATACCTTCGTGCGGT  
 TTCTTCGACGACCTCCAAGAACACGACGAACCTCGATGCCGCACCGCATTTGGAAGGCCTC  
 AAAGGCTACGTCCTTGCCGGCGAATTAGATGATGTACCCCAATTAGCCAAGCCGACCGC  
 ATCTGCGAAGTCTGGCCCGCGCACGCCTTCAAATCGCAGAAGGAGCAGGTCATATGCTT  
 CCGCTTGAAGCGCCAGGAATCCTCAATAATGCGATCGGCAACATTTTGACGGGCTGGGC

>RXN01466-downstream  
 TGAGGAACCTGGTTCGGGCGTGG

>RXN01499-upstream

GCAGCAATTATCTCCACCGAAGAGGACTAAATATAACGTGGCATTGAGCAGTGTTCCAGC  
ACAGTTCCTGAGATCCGCCCAGGCGCCCCCGAAGCGTACT

>RXN01499

TTGTGGGACGCTTAGAATCCGTCGCCTCTACTTATCCTGAGGCAGCAGCTATTGACGAT  
GGCCAGGTGTTGACCTACGCAGAGTTGATGGAAGAAGTACCGCGTTGGCTGATTCCATT  
CATGCACAGGGCATTTCGCGTGGTGATCGCATCGGTATTTCGCATGCCGTCTGGTACGCGT  
GACCTTTACATCGCTATTTTGGCCACTCTCGCTGCTGGTGCTGCTTACGTGCCAGTTGAT  
GCAGATGATCCTGAAGAGCGCGCCGAGATGGTGTGGTGAAGCAAATATTAATGCGCTT  
TTCGACGCCACCGGCTTCATATGCTTCGCCCCACCGCGGGCGGCGATACCCGTAGACCA  
CGCTTGGATGATACGGCGTGGATTATCTTTACTTCCGGTTCCACCGGCAAGCCTAAGGGT  
GTGGCTGTGTCCACCGTTTCAGCTGCGGCTTTCGTGGATGCCGAAGCACAAATGTTCTT  
GTCGATCACCTTCCGGCCCCCTTGGCCAGAAGACCGAGTCCTTGCGGGATTGTCTGTA  
GCCTTTGACGCATCTTGTGAGGAAATGTGGTTGGCTTGGGCGCACGGCGCCTGCTTGGTG  
CCAGCACCGCTCCCTAGTCCGTTCCGGTATGGACTTGGGCCCATGGCTGATTTCGCCGC  
GACATCAGTGTGCTCTCCACCGTCCCAACTCTGGCTGGTCTGTGGCCAGCAGAAGCATTG  
TCACAGGTCCGCTTGCTCATCGTCGGCGGCGAGGCTTGCTCGCAGGAGCTCGTTGAACGC  
TTATCGACGCCTGACCGCGAGGTGTGGAACACTTACGGCCCCACCGAAGCAACGGTGGT  
GCCTGTGGCACTCAACTCTATGCTGGTCAGCCAGTGGGCATTGGTTTGCCACTTGCTGGT  
TGGGATCTTGTGTTGTGTCGACGATGCCGCGGAACCTGTCGGAATCGGCGAGGTCCGGCGAA  
TTGGTCATCGGTGGTGTGGGTCTTGCACGCTACCTTGATCCAGAAAAAGACCGCGAGAAG  
TATGCGCCACTGAAGTCTGTTGGTTGGACCCGCGCTTATCGTTCCGGTGACCACGTTCTG  
CTGGAAGAAGATGGCCTCTACTTGTGGGCGCGCTTGATGATCAGGTGAAAAATCGGCGGT  
CGACGCATCGAGCTCGGTGAAGTTGATGCCAATGTGGCAGCGCTTTCCAACGTTCTGTTCC  
TCCGCAGTGGTTGTTTCAGACCACTGGTGCGGATCAAAAAGTTCTGGTTGCATACGTTTCT  
TTGGAAGATGCTGCAGCTGGATTGATCACAACGTCGCGACTGCCGACTCACCGAAACC  
ATGCCTGCTGCTTTGGTTCCGCGCATTCACGTGATGGATGATCTGCCTGTCACCACCTCC  
GGCAAGGTTGATAAGAAGTCTTGGCGTGGCCTCTTCTGGCACCGTGGTGGAAGCTAAT  
GACCTCAGCGCAACGGAAGCGTGGATTGCTCAGGAATGGGTGATATCCTCGGCACTTCT  
GTGAGCAGCAAAGACGCCGACTTCTTCTCCCTTGGCGGTACCTCTCTCGCGGTGCGACT  
TTGGTTGGCCGGGTACGCGCAAAGGTTCCACCGCTGCGGTGCGTGATCTTTACGATCAC  
CCTCGCTTGGAGAAATTCGCCGAGCGTGTGAGGCTATCGCCGCGGACACTGGCATTCT  
TTGGAGGCGCCAAACAGGTGGAGGAGCGCGTGTCAAGCCTGTTTCTTTTGGCACTCGT  
GTGATGCAGACCTCATCCAGATTCCGATCATGACGCTGCAAGCAGCACAGTGGATTGCA  
TGGTTGCTGTTGGGCAACAACATCATGGCAGCGCTTGATTTGATTGGGCTGTTTCATGTC  
TCCTGGTGGCTTGTTCATCGGCATGATTTTGGTGTTCGCTACCCCGATTGGTCGCTTGCCG  
ATCGGCGGTTGGGGCGCCGCATCATACCCGTGGCATAACTCCTGGCTCCTACCCTCGT  
GGCGGTTCCACTCACTGCGCATTTGGTCCGCCGAGCGCCTTGCTGATGCCTCTGGCTCT  
CGCAATATTTCTGGCGCAACCTGGGTGAACTACTTCGCGCGTTCCCTGGGTGTGAAGATG  
GGCAAGGGCGTGATCTTCACTCCCTGCCACCAATCACTGGCCTTTTGACCTTGGGCAAC  
AATGTTTCCATCGAGCAAGAAGTTGACCTTCGTGGCTACTGGCTCGACGGCGATATCCTG  
CGGTAGGCACCACTGAGGTCCATGACAACGCTCGCATCGGCGCTCGTTCCACCCCTCGT  
CCCCGACCGTGGTGGGCAACCGCGCTCACCTGCTGCCTGGTTCAACAGTGACTGGTGAT  
AAGACCATCAAGCCTGGTTCTCGTTGGGCTGGCTCCCCTGCACAAAAGGTGGGTGCTGCA  
AAGCACCGGTTCCCAACCTCCCATCCTCCACGCAGGTCCCGGTGGGTTCGGTGTTCGGC  
GCGACCTCCATCGTGTGTCGCTGCTGCCACTTCAGGCTCTCGCTATTGGCGCTGCTATC  
ACCTTGTGGCTGGCCACGATTAGCCCGCTTCCACTGATCTGGGGTGTGCTGGTTTTGTGCT  
ACCGTCCGGCGGTTGGCTGCGTCTTTGCTTACACCGTGACCATCTGGGTGCTTGTCCGT  
TTGATCCAGATCGGCATCAAGGGCGGCACCGCACAGTGAGGTCCCGTCTTGGTTGGCAG  
GTCTGGGCAGTTCACGCCTCATGGACGATGCCCGCACCTATCTCTCCCGCTCTACGCA  
TCCCAACTGACCCCACTGTGGTTCCGAGCTTGGGCGGAAGATCGGCAAGGATGTTGAG  
ATCTCCACCGCGGTGATGGTTCCCTAACTGGCTGATATCCGCGAAGGCGCATTCCTGGCC  
GATGACACCCCTCATCGGTGGCTATGAGCTGGGTAATGGTTGGCTGCTCAGTGGTGAAACC  
CGCGTGGGTAAAGCGTTCCCTCATTGGTAACCTCTGGCATCGCAGGACCTGAGCGCAAGCTC  
GCTAAGAACTCCCTGGTTGCAGTGCTCTCCTCCACCCGAAGAAGGCTAAGGCCAACTCC  
AACTGGTGGGTTCCCTCCAGAGCGCATGCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
GAAGCAAAGACCTACAGCCCTGGCTTTGGTGTGAAGTTTGCACGTGGCGCGGTGGAAACC  
GCACGTCTGCTTGTCTCAATAACCTCTGGTGTGTTGGCTGCGCTGCTGCTGCTGCTGCT  
CAGTACCTGCTCACTGAGTTCAACATGTGGATCACCTGGTTGCTTGGCGGACTGATCCTC  
ATGACGGTTGGTGTGCTCGCCATGGGCATTACGGTTGTGATGAAGTGGGTTTGGCTCGGC  
AAGCATAAGCCGTCTGAGCACCCCTCTCTCAGCCGCTTGTGTGGCTGAATGAGCTGCAA

GATGCGTTTCGTGGAATCCGTGGCTGGCCCATGGTTCCTCGTGCCCAACCTGGGCACCGGC  
GCGCTGAACGCCGGCATGAGCGCGCTTGGCGCACACATCGGCCGTGGCGCATGGATCGAA  
TCCTACTGGCTGCCGGAACCGACCTCTGCTACATCGGCAAGGGCGCAACCGTGGGCCCT  
GGCGTGGTTCGTGCAGACCCACCTCTTCCAGGACCGCGTGATGAGCCTAGATACGGTGACC  
GTCGCTGACGGCGCCACCCTAGCGGACCACTCCGTTGCCCTTCCTGCTTCGCTTATCGAC  
GCCTCCGCCACCATCGGCCAGGCTCGCTGGTGATGCGCGGCGACAAGGTACCAGCGCAT  
ACCCGCTGGCAAGGCAACCCAATTGAGCCGTGGAGCAACTCT

>RXN01499-downstream  
TAAATAACAACAATCAGCCGGAT

>RXN01555-upstream  
CTGGTTTTGTGCGGAGGATCAGCCAGCAAGTTAATGATCCTTACATGGCGCTGTTGTTGG  
CGCGGTAGTCAATCATGGGGGAGTATCCACCGTATCCGC

>RXN01555  
GTGAACAAGGGCGTGGTGCTGGTAGCAGGTGGATTCTCCAGAAATCCAGAACTGCGCATG  
AAGTACATGCCAGAACCCACCCACAGTTCTCCCGCACCAACGAAAGCGCCACCGGCGAC  
ACCATGGCCCTTGCTGCGAAAGTGGGAGCACGCCTAGGCGACGACAACGGTGAAAACGCA  
CTGTGGTTCCTCATCGTCCATCGGCACCCGCGCCGACGGATCCACCGCGGTGTACCCACAC  
ATTTGGGACCGTGGCGCCTCGGAGTCATCGCAGTCAACGCAGCAGGCGAGCGTTTCGTC  
GATGAATCCGCTCTCTACCACCGCTTCGTGCGCGCCATGTACGAATCCAACAAAACCAACC  
CCGACTGTTTTCAGCCTGGCTCATTGTTGATTCCACACCCCTGGCAAATACGGCCTCGGC  
ATGATCACCATGCCACACCTGCCTAAACTCGCTCTGCAAAAATACATCGACTCCGGATAC  
CTGCACGCAGGATCATCCTTGGATGAATTGGCACGCAGCATTGGTGTGGACGCTCGCGGC  
CTGGAACAAACCGTCAAACGCTACAATACCTTCGCTAAAACGGGTATCGACGAAGACTTC  
CACAAGGGCGAACTCCTCTTCGGTCAAGCCGCGGCGATCCAGACAACAAGCCAAACCCC  
AACGTCGGACCAATCAAGAAGGGACCGTTCTACGCAATCGCTGTAGTCCCAACCCCTCTG  
GCCACTGCCTTTGGCATCAGCATCAACCCCAACGGACAGGTTGTTAGTGAAGATGGGGAG  
CCCATCATTGGACTGTACTCCGCAGGAAATGATGCCAATCTGTATGGCTTCTGAATAT  
CCTGGTGCTGGTTACAGGTTGGTTCCGGAATGACCTTTGGTTGGATCGCAGCAGAC  
CGGTTGGGGAAAGCGGGAAAATCCGGAGGAGCTAAGGCAGGATATGCCGCGTCTTCTAAG

>RXN01555-downstream  
TAATTGCTTGGTGGGTTGCTTAC

>RXN01608-upstream  
ACAGCGCGGAATTATCTAGACGCACACGTGTTGGTAACCGATCACACCAGCGCACGCTGC  
TAATCTTCACTCCATGAACAAGGTGCAGCGCAGGTCACTG

>RXN01608  
ATGGCGTTGTGCATGACGGTGGCATTGCTGGAGGAAGCCTGACCGCGTGACACCTCGT  
CCTGATACCGCAGACCCCATCGCAGAGGAATTCCTTCAAGCTTGGGCATCGCAAGATTC  
GACACTATTGCGGACATCACCGACCAAGCTGACCTTGCCACAGAAATGCTCAGCACCAGT  
TTCGATGGTCTGCAAGCAGACAGCGTTGAACTGACTTTGGATTCCGTGGATTCCCGGGAC  
ACCATCGCCACCGCCAATTTCTCCGTGGTGTGGAAGCTTCCCCGAGACAGAGAAGTTTCC  
TACGACTCATCGATGACGCTGACCAAGATGCGCAACGAATGGACAGTGCGTTGGGAACCT  
TCCCTCGTGACCCCAAACTGGGCGCCAACAGCACCTGGAATTGCGCGCCATTGAAGCG  
CAGCGAGCCAACGTAATTTCTCCGATGGAGCTCCGGTTCTCGCGCCGGGAAGTATCTAC  
CGAGTTTTGGTTGATCCCAGCGCAGGGGATGCCGATGTGGTGGTCAAGAGGGTGGCAGAT  
TATTTGAATGAAGCCCATGCGACTGATGAGAATGTGAACACCCTTGATGTGAAGACATT  
ATGAGCAATCTTGGCGATTCCACCTATTCACTCACCACAGTTGATGCCAATTTGGGTGCC  
CGCATGGAACAGGATCTAGCGGGGATTCGGGGGCTGACGTTCAATGAGGAAGCATCCATG  
GTAGCCACCGACCCAGGTTTTCGCTCCGGATATTGTGTCTCGCGTTGCGCGCATTGTGGAA  
GATGAATTAGAAGGATCCAATGGTTGGCGCGCCTCCATTGTCACTTCCAATGGTGCGGTG  
ATTGATGATATCGCCTACGACGCCCCAGAGCTTGCCCCAGCGTGAGGATCAGCCTGGAT  
CACAACGTTCAACGAGCAGCGGAAGAAGCCGTAGACCTGCGCGCTGAGATGAAAGCCATG  
ATGGTGGTCATGAGGCCATCCACTGGTGAAATCCTCGCAGTGGCCCAACAGATGAAGCT  
GACAAAGACGGCGATGTTGCGCTGATGGGACAATACCCACCGGGATCGACATTCAAGATC

ATCACTGCAGCCGCGGGGTGGCGCATGAAGGATTAAGTCCAGACAGCATTGTGCCATGC  
 CCTGGCACCATTGAATATCTACGGCCGAATTGTACCAACTACAACAGCTTCTCCTTGGGC  
 AACACCTCATTGGATGATGCTTTTGCCAATTCATGCAACACCACTTTCGCGGATATTTTC  
 CACCCTTGGAGCCAGGCCAACTGAAAAATGTGGCTAAGCAGTTTGGCCTCGGAATTGAT  
 TATCAAATCCCAGGCCTTGACACCATGACGGGATCGGTGCCTGAAGGTGACATCGTGTTG  
 GACCGTACCGAATCTGGTTACGGCCAGGGTCTTGACCTAGCAAGTCCCTTTGGCATGGCG  
 TTGGTCGCCTCCACTGCAGCCACCGGTTCAAGTCCCACGCCAACGCTGATTTCTGGACAT  
 GAACTGTTGCCAGTGAAGAAGTTCTGGCGCTTGATCCAGAAGTCTTGCCAATGTGCAG  
 CGGATGATGAAATCCGTGGTCAATGACGGTACCGCTCGTGGCATGCGCCAAACCGGTGGC  
 CAGATCTACGCAAAGACAGGTGAAGCCGAAATCAACGAAGGCTCCCATGCGTGTTTACC  
 GGCTACCGCGAAGATGACATCGCTTTTGCCACCCCTCGTGGTGTTGGGCGGAGGCTCCGAA  
 GCGGCTGCCGCTGTGACAGATCAGTCTTTGTGAAACTCGATGAGCTTCGCGCAGGGGGA  
 GAAGTTGCAGTCAGTGAAGCTGAAGAGCAGCCAGTCGGC

>RXN01608-downstream  
 TAAAAAATAGCCTCCATCCAACC

>RXN01619-upstream  
 CCTGCAAGTTTACTGCTCGGCCGTCACGGGGGAATGGAAAAAGTACGCTTGGTGTTTATA  
 TAGCGAACCCATTTTCTATTGCGATGAGAGGAACACCACC

>RXN01619  
 ATGCGCGCAATCACTCACAACTTTTCGGCGACCCCGCCGACGTCCTACAGATTACCGAG  
 AAGGAAATTTCCACTCCCGGCCAGGTCAAGTTCGTATTCAAGTGACGCTGGCAACCATC  
 CACAACCATGATTTGTGGACCGTGAAGGGCTCTTACGGCTTCGTCCCAGATCTGCCGGCC  
 GCCGCAGGCACCGAGGCAGTCGGCATCGTCGACGCCCTGGGCGAGGGCGTCGAAGGTTTG  
 CAGGTTCGGTCAGCGTGTTGCGTCCGGCACCAGCTTTGGCATCTGGGCGGAGTACGCGCTT  
 GTCGACGCCTCCGGCCTCATTTCCCGTACCAGAACAGCTCTCCGACGAAAGCGCAGCTCAG  
 CTCGTGCAATGCCTTTCAGCGCCATCAGCCTTCTTGATTTCTTGATATGAAACCAGGG  
 GAGTGGCTGATCCAAACTCCGCAAACGGTGCCGTGCGCCGATGCTCGCACAGCTGGCA  
 GAATCCCGCGGCATCCATGTGCTTGGTCTCGTCCGCCGTGACGCCGCTGTTCCAAGAACTC  
 GCTGCTCAAAACATCAGCGGCGTCGTTTCCACTGAGACCCCAGGCTGGGAAAAGCAGGTC  
 GAAGACATCACCGGTGGCGCAAGCATCGCCGTGCGACTTGATTCCGTGCGTGATCCTCC  
 GCAGCTGACCTGGTGAACTGCTTGGCGAAGGCGGCACCCTCGTCTCCTTCGGCGCCATG  
 GGCAACCCAATCATGGAAATCCCATCCGGCCCCGTATCTTCAAGCACATCACCGTCAAG  
 GGCTTCTGGGGAAGCAAAGTCAGCCGCGAAATGCCAGCAGAGAAGAAAACCCAGTTGTTT  
 GCGGAGCTCATTGCGCGCATACTTGATGGAACATTGACCCTTCCAGTTGATTCCACCTTT  
 GATGCCGCTGACATCGTCTCGGCCGTGCGCGCCTCCAGCGAGCCTGGCCGTGCCGGAAAA  
 GTGCTCATTCTGTTT

>RXN01619-downstream  
 TAAACGTTTAAGGCCCATTAGAC

>RXN01653-upstream  
 TTCATTAGGGTGAATGCTCTCCTTGTTTCAGATGTTCAACGCTCCATAAAGTAGACCGC  
 AATCTAGACAAAGATGTCTATTTTAATTAAGGAGCAGAAC

>RXN01653  
 ATGGCCACGGCCGAGAACACAACACAGGAGAATCGGAAAAATCCTGTTCAACGCATTGAT  
 ATGAACTGCGTTGCGCATCAGTCCCCAGGACTGTGGACACACCCGAAGGATAAGGCGCGA  
 GACTACAACACTCTTGATTACTGGGTGCACCTTGCCAAGACTTTGGAGAAGGGCCTTTTC  
 GACGGCCTTTTCATCGCAGATGTGCTTGGAACTTACGATGTTTATGGTTCTAGTAATGAA  
 GCGGCGTTGAGCAGTGGTGCGCAGGTGCCTGTCAATGATCCGATCCTTCTTGTTTCTGCG  
 ATGGCCTATGCCACAAAGAACCTCGGGTTTGGCATTACTGCAGGTACTGCCTATGAGCAC  
 CCGTATCCTTTTGCGCGGCGTCTGGCCACACTTGATCACCTGACTAATGGGCGTGTGGGG  
 TGGAAATGTGGTTACTGGCTATCTTCCCTCTGCTGCTCAAAACATGGGTGACACCGATCAG  
 CTGCCACATGATGAGCGCTATGACAAAGCAGATGAATACCTGGAAGTGATCTACAAGCTT  
 CTCGAGGGCTCCTGGGAAGACGATGCTGTTCAAAACAATACGGAGACGAGTGTCTTTACG  
 GACTCCTCCAAAGTGACGCCATTAATCATCATGGCAAGTACTTTGATGTGCCGGGCATT



GCCATCACTGAGCCGAGTGTGCAGCGTACGCCGGTGATCTACCAGGCGGGTGATCGCCG  
 CGCGGATTGAAATTCGCTGGTGAGAATGCAGAAGCAGTGTTCATCAATTCAGCACCGTG  
 GAGGCAATCACCAAGACTGTCGCAAAAATTCGCGCTGCTGCGGTGCTGCGGGACGTGAT  
 CCACATGCGGTGAAGATCTTTGCGATGCAAACCATCATCACTGGTGAAACAGAAGCAGAT  
 GCGCAGGCAAAGCTGGAGGAATACAGTCGCTATATCGATCCTGTGCGGTGGTCTGACCTTG  
 ATGTCTGGATGGACCGGCGCGGATCTGTGCGCAGTATGACCTGGATGAACCGATCACCAAT  
 ATTGAGTCAAACGCTATTTCAGTCCACTGCAGCCACCATTAGCAACGGCACCGGTGAAGGT  
 GCGTGGACGGTACGCAAACCTGGGTGAGGCAACCGGCATCGGCGGCTTCGGACCAGTGCTT  
 GTGGGATCTGGCGCTAACGTTGCCGCGGAACCTTGACGCATCCAGGATCTCAGCGATGTT  
 GATGGTTTCAACCTTGCTTATGCCATCACCCAGGAACCTTTGAAGATGTGCTGGACTTT  
 GTGGTGCTGAGCTGCAAAAACCTTAGCCGCTACAAGACGGAATACGCGCCGGGTTCCTTG  
 CGCAACAAATTGCTCGGTAAAGGTGATCGCCTGGACGATACCCACCGCGGCGCAAGCTAC  
 CGCCTAGGCGCTCGGAACCTCACCGCCACTATTGATCTCAGTTCCATATCCGCCCAACTA  
 GTTCCCAGGGAGCCCACTCA

>RXN01653-downstream  
 TGATCTCACCGCAAACAATCATC

>RXN01716  
 GAAGTCACTCCTGAGGGATTCAAAGAGATCACCCGTGAAAACACCATCGTTCGCCTGGGC  
 AAAGGCGTCGACGCCACCGGTGAGCTAGACCCCGAGGCAATCGAGCGCACTCGTGTCGT  
 TTGAAAACCTACGTTGAACTCATGGAAACCCATGGGGTAGAGGCCGTACGAATGGTTGCC  
 ACCCGCAACCCGCGATGCGTCCAACCGCGATGAATTCTTTTCGATGACCCGCCAGCTT  
 CTGTCCAAGATCCGTCTTGATACCAAGCTGAAGTAATTTCCGGCGAAGAGGAAGCTCTG  
 CTGTCTTCCGAGGTGCAATCGTTGACCTGCCTGAAGACCAAGGTCTTTCTGTGTTATC  
 GACCTTGGCGGTGGATCCACTGAGTTCATCGTTGGCACCTACGACGGTGAAATCCTAGGC  
 TCCCACTCAACCCAAATGGGATGCGTGCGCCTGACCGAACGAATCATGCGCAGCGACCCA  
 CCCGAC

>RXN01716-downstream  
 TGAAACCGAAGTGGAATCGCCC

>RXN01842-upstream  
 CACGTGATGGTCTCGCGGTGATCATCTTCCTACCGTGACAGGCAAGGCCGCAAACGGCCG  
 TGACCACAGGAAGAAATTCACGAGGAGAGGAAGCACACG

>RXN01842  
 ATGTGCAAGGTATACGTGTCCAACGAGTACGGCGGCCCCGGAAAAACAGGAACTGATCAC  
 CGCAACACCCCCAGCCAGGCCCGGAGAACTCGGGGTCAAGGTCCACGCGGCCGGGGTC  
 AACCCGCTTGATTGGAAGGTCCGTTCGGGGTTGCCGGAACCCGCGAGAGCTTCGGGCA  
 CCCCTGGGCGAGGAGGCCCTCCGGGATCGTCACCGCCGTTGGAGACGGTGTGGAGGGCTTC  
 GCGGTGCGCGATCCGGTGCTCGGCCCTGGTGGCCCCCGGCGTCGGCGGATATGCCGAGGAC  
 ACCCTGCTGGTGGCAGAGAGTACCGTGCTAAAGCCGGAGGAGATCTCGTTCACCGACGCC  
 GCCGCGATCCCGGTGCTGCGGGCGAGCGCCTACGCCGGCACTACCCAGGTGAGCTTGAA  
 CCAGGCCAGTCGTTGCTGATCAATGGGGCCGGTGGTGGGGTTCGGGCTGATGGCCGCGCAG  
 ATCGGACGGGTCCACAAGTTCAGGTGCTCGGCGTTGACCACGAGGACAAGCGCGAGCTC  
 ATCGAATCCACCGGTGCTATCTTCGTGCCCACCGGCGACGCCGTGCGGAGCAGGTGCGT  
 GCGCTGCTCCCTGACGGTGTGGACGTAGTCTTCGACCTAGTCGGCGGGGAGGCGTTGCGG  
 GTGGTTGCTCCCTTAGCGAAGAATCCGGCGCACGTGATCTCGGCGGCTGATGCTGCCACC  
 GTGGGAGAACTCGGTGGACAGGTGCTGCGCCGCAACCCGGAATGGTCCGACAGATCAC  
 GGGGTGGTCCAGTACGGGCTGGTTCGACCCGAAGGTGATACGACCTACCCGCTGGAACAG  
 GCCGGTAAGGCCCTGGCCACGTTGAGCAGGGCCACGCCCGCGCAAGATCGTCTTCGAG  
 CTCATCACCTCCCAGGAC

>RXN01842-downstream  
 TAACCAGACAACGCGGTGACCTC

>RXN01849-upstream

AAAACCTTAAGTTGGGTGGTTAAACCCACTAAGGTCTCACTTTATGGATGTGCCAGGTCA  
CACCAAAAAATCTCAAGAAACTCACATTAAAGGACAGTA

>RXN01849

ATGGCGTCACAACAGATCCGCTATCCATTCTCCGCGGTGTGGGACAAGACGAGCTTCGG  
CTTGGCGTTGATCCTCACTGCGATTTCCCCACGCATTGGTGGCGTGGTGATTTCGAGGTGAG  
AAGGGTACAGCGAAAACCTACCACTGTGCGTGCTTTTGCTGGTCTTTTAGGTGATGCCCCCT  
TTGGTGAACCTGCCTCTCGGATCCACGGAGGATCGTGTGGTGGGTTCCCTCAACATGGAA  
ACTGTGTTGACCACCGGCCGTGCGGAATATCAGCCAGGTTTGCTCGCGCAGGCTGATGGC  
GGTGTGCTGTATGTCGATGAGGTCAACCTCTTGCGCGATCACCTGGTGGATGCTCTGCTC  
GATGCAGCTGCAAGCGGTGCGGTGAGCATGAGCGTGACGGTATTTTCGATTCTTCACCA  
GCAAACTTTGTGTTGGTGGGCACCATGAATCCGGAGGAAGGCGAGCTGCGCCCGCAGCTG  
CTGGACCGTTTCGGTTTGGCTGTGGACGTTGCTGCGTCTACGAACCCTGAGGTGCGCGTG  
GAGATCATTCGCCGCCGGCTTGATTTTGAAAACGCTCCTGAGCAGTTCATGGCTAAGTGG  
GCTGAGCAAGATGCGGACACCTCCAACCGTATTTTGCGCGCTAAGGATTTGCTGCCTGGT  
GTGGAGCTGCCGGATCTGATCTTGTGCGCAGATTGCGTGGTTGTGTGCACGTATTGAAGTC  
GACGGTATGCGCGCTGACCTGGTGATCACGCGTACCGCACTTGCTCACGCCGCGTGGGCT  
GGACGCACTGTGGTTACGGAAGAAGACGTGGAGATCGCAGCTCGCCTAGCGTTGCCGCAC  
CGCCGTGCGCGTAATCCTTTTCGATGCTCCAGAAATGGAGGAGCGCAAGCTTCAGGAAACC  
CTGCAGGAAGCTCGGGACTTCTTCAAAGACAATGAAGATAAAGGACCTGCCGCCAAGATC  
ACCGATGAGGAAACCGGTGCAGAGGCCTTTACCGATACCGACAATCCCACCGAGGAAGAC  
GGTCTGCAAGGAACTGCGCAGGCGAAGGCGCAGACTACTGGAAGGTAGGTACTGCCGGA  
TCCGGCGACCCCTTTTCGCTCC

>RXN01849-downstream  
TAGGCATTTGCGCCTGGCGTCCA

>RXN01868-upstream

TGACAGGCTACCTTCTGGGGTGGACATGATCCCCAACGCTCAACCCACTTGTGGCACCAA  
CCACAAACCCTGTGGCGGTAAATCCCCTAGAGTAGGCCAC

>RXN01868

ATGAAGGATCTTTATCGCTTTGTCAATGGCCTGTGGCTTGACACCCACATCATTCCCGAC  
GATCGCGCGGTGGACGGCACGTTCCACAAGCTGCGCGATGATGCTGAAGAAGACGTCCAT  
GAGATCGTCAAGGAAGACACTGGACGCGCAGGCACACTTTATGCCTCATTTATGGATACT  
GACGCCATCAACGCTGCTGGTGTGACCGCTCGATGCGGATCTGAACAGGCTGTCTGTT  
GCTAACTCATCGTTTTTTCGAGCTGCTCTCGGCGAACTGGACCGTGAAGGCGTTGGCGCG  
CCAGTAGGTTTCTGGGTGGAGAAGGATTCTTCTCCAACGAATCCGTCGCTATGTCATC  
CAGTCCGGCCTCGGCCTGCCGATGAGGCTTATTACCGCGAGGAGGCACACGCCGAAACT  
CTCGCGCCTACAAAGAGCACGTTGAGCGCATGCTCGGCTACTTGATAACAGCCGCCTC  
TTCGGTCTGTGCGCTGCTTCCGCTGCCGCACGAATTGTGCGCCTGGAAACGGAATCGCT  
GCTGGCCACTGGGATGTGCTGAAGACCCGCGACGCCGTAGCCACCTACAACCCACCGAA  
CTCGGCGCGCTGCCACCAAAGTCCGCGACGCTGCTCAGTTCCGCGAGGCCTCCCGACCGAG  
CGCCTGGTATCGATGATGCCGTCATACCTCGACCACCTCAACGGCTTGCTTGTGCGACGAC  
CGCCTCCCCGATTGGCAGCTATGGGCAACCTGGCACATCTTGAGGTCTCGAGCAGGACTG  
TTGACCGAGGAAATTAGCCAAGCAAACCTTCGACTTCTATGGCACCAAACCTGTCCGGCGCC  
ACCGAGCAAAAAGATCGATGGAAGCGTGCTGTGCGCCTGGCAGAGCGCATGGTGGGCGAG  
GAAATCGGGCAACGATTCTGTCGAAAGGCATTTTCTGCAAGCTCCAAGGAGCACATGCTT  
GAGCTCGTCGACTACCTGGTTGCCGCTACCGTGATCGCATTTCCAACCTCGAATGGATG  
ACGCCCGCCACCCGCGAGCGTGCCCTGGAAAAGTTGGGCAAATTCAACGCGAAAAATCGGC  
TACCCCGACAAGTGGCGCTCCTACGAAGGCCTCGAATTCCGGCTCCGACCTGGTGGACAAC  
TCCCGCAAGGGCTCCGCGTTCCTCCATGACTATGAGCTGGGCAAGATCGGCAAACCGAGCC  
GACCGCGACGAATGGGTACCAACCCCAAAACCGTCAACGCCTTCTACAACCCCGTGGTC  
AACGACATCACTTCCCCGAGCCATCCTGCGCGCACCATCTTCGACCCCGAAGCAGAA  
GCCGAGAAAACCTTCGGTGCAATCGGTGCTGTGATCGGACACGAAATCGGCCACGGCTTT  
GACGATCAAGGCAGCCAATACGACGGCGACGGCAACCTCAACTCCTGGTGGACCGACGAA  
GACCGCTCCGCATTCGAGCAGCTCACCTACGCTGGTACCCAATTACGCGGACTCGTTC  
CCTGCCGTCCTGACCTCTGAAGGAATCGACACCGACGGCGTCAACGGTGAATTCCTCTC  
GGCGAAAACATCGGTGACCTCGGCGGATTGGGCATCGCTGTGCTTGCCTACGAAAAGTAC  
CTCGCAGACCGTGGCCAAACCTTTGAAACCTACCAAGTCCAAAAATTCGAAGCAGAAGGC

GCCGAGGAAGGCCTGGCCGAGCAAGAATTCAACGGTCTCCAACGCCTCTTCCTGTCTGG  
 GCTCGCGTGTGGCGCACCAAAATCCGCCCACAGATGGCCGTCCAATACCTGGCCATCGAC  
 CCACACTCCCCTGCAGAATTCGCTGCAATGTCATCGCCGAAACGTCGCTGAATTCTAC  
 GAAGCATTGACGTCCCCGAAGATGCACCTGTGTACATCAAGCCAGAAGAGCGCCTAGCT  
 ATCTGG

>RXN01868-downstream  
 TAGTTGTTAGTTGGTATTGAAAA

>RXN01885-upstream  
 GTGGCGTCGACGGGATGTTTCCTGCGGCACCATTTTTGCTGAGGTGGAACACGGATTAA  
 ACACGGATTTTTCTAAGGTTAATCAAGTAAGGTTTACCTT

>RXN01885  
 ATGACTACGAAACCTATCATCCCAGAATCAACCCACTCCGCAGAACGTGCTGGTGGACAT  
 TGGATCCTTGCCAGGCTTGGAAGAAAGTGCTGCGCCCTGGAGGTGCTGAAACAACGCAG  
 TTCCTGCTGGAGAACCTTTCTTTGACCGGTGCTACCGTGGTGAATTTGCTCCAGGACTT  
 GCGGTGACTGCACGTGACATCCTTGGAAGGGTCCGGCTCGCTACATCGGAGTGGATAGC  
 GACGCGGATGCATGCGCGAATGTACGTGCGATCTTACCTGCTGGTCTCACGAGGTGCGC  
 AATACAAATGCCACCGATACTGGCCTTGAAAGCGACTCGTTTGATGTTGTATCGGCGAA  
 GCGATGTTGACCATGCAGACCGATAAGCACAAAGTTGGAGCTGATGCGCGAGGCAGCTCGA  
 ATTCTGAAACAGGCGGGCTGTACGGCATTCACGAGCTGTGCTGGTGCCTGACAATGTC  
 TCCACTGCGGTGAAAGAGGATATTGCTAAGGCGCTGGCTCGTTCCATCAAAGTCAATGCC  
 CGCCCCATCACGGTGCCGGAATGGGCTGCGTTGGCGCGTGAGGCAGGGTTCGATGTGATT  
 AATATTCGCCAAGCCGACATGGCCCTTCTATCCCTCAAGCGAACCTGAAGGATGAAGGG  
 CTAAGAGGTGTCTTCACGATTGTGAGGAACGTGATTAGCCAACCGGATCTGCGCAAGCGA  
 GTGCTCGGAATGCGAAAGACTTTCACCGAGCATAAAGATCACTTAGGTGCGGTTGGCATC  
 ATTTTGCAGAAGAGAGCCCAA

>RXN01885-downstream  
 TAGGGATCTGAAATGGAGGGGTG

>RXN01923-upstream  
 CCAAAGTGAATACCCCGACTGCAGCAGCGCAAAAGTTCAAGTACTTTGGGATGCAAATCT  
 AGTAGCACGTCCCATGTTTCTCACACTCTCAGGAGCTGAC

>RXN01923  
 ATGTCTGCACTTATTAAAGGTTTCAAGACCTCATCATGTGGTTGTCTTAAATGGTTGGTTT  
 GGTCTATGCTCGGGGCTGGGGAGCTTTCGCTGACTATCTTGACCTCGGCAACTACACCTGG  
 CACTTTTGGGATTACCGAGGTTACGGCAACAGAAAAGACGACGAGGAGAAATTTACTCTG  
 GAGGAAATTTTCAAGGATATCGTTGCATACATCGACTCGATTGAGGCAGAAAAGGTTTCC  
 ATCCTGGGCCATTCCATGGGTGGAGTGTTTCATGCAGAAAGTCCTTGACAGACAGCGCCACC  
 CCCATCGCTTCACTGGTTGGAATTTCTGCCGTTGCTGCAGCTGGAACACCATTCGATGAG  
 GATTCTCGGAAGCTTTTACCTCAGCAGGGCACAACCCGGAAGTTCGAGGCGAGCCATCATC  
 GATTTACCTCAGGATCTCGCCAACCTGCCGCGTGGTTGGATGATCTCACCAGCTCGGCG  
 GTGCAGAATTCACCTCCAGAGGCCGTTGAAAAGTACTTTTTTGGCTGGGCTGATTGTAAT  
 TTCGCAGCGGATTTAGGCACCCAAGATTTGCCGTTGGACATTCTACCGGCGATCTCGAC  
 CCCGCGGTCACTAAACTGCCGTGGAATCCGCATTTCGGCCCGATCTATCAAAATCTGACC  
 GTTGAAGAACTCCACGATGTCGGACACTACGCAATTTTCGAGCACCCCTTAGGCCTTGCC  
 GCCAGGGTGCTTCGATTTCTCGACGCCGTC

>RXN01923-downstream  
 TAGTACTTCCGCAAATTCACCGG

>RXN01963-upstream  
 CAGATTTTCTCTGTGTGAGCTGGGGTTTTCTGCATTTCCCACTTGTTTTTCTCCAACACT  
 CCACACACACACCTTCAAAGAAGAAAGTTTCGAAAGATTCT

>RXN01963

ATGAAAAACCGTAAAAAATCATGTCTACCCTCACCCTGTCTGCGCCGTACTGGGTATA  
GTTGCAGCTCATCCATTCCACGCCTCTGCTGTATCGGCGGCTCTGTCCCATCAACTGAT  
TCCGTTGCCAACGCTGTGCGAAAAATCGGACCAGGCGCATTGAACTGCAGCGGTGTCATG  
ATCTCACCATCGTGGGCACTCACCGCACGCCACTGTGTGATGACATCAACATACTCGGC  
GACATCGACACCATCACGCCTATTACTCCAGGTATTCATCGCAATGAAGGTAACATATG  
GGTGAGGTTTACCGCGCACCGTCCGGTGATCTAGCGCTCATTAATATCAACGGCGTGCAC  
AAGGGCACCATTTGCGCAGCTCCCCACACAAGAATATCCACTGGGAACCGCTGCACAGTCA  
GTCGGTTTTGGTGGCGGTGGTGTCAATATCCGCACCGCTGAATCGGTCAACATGATTCTC  
ACCGACATATATAGCGTGAGGTGAGGGAAATTCATCACGGTGTGGTTCGATCACACTAT  
CTCCTCTTTGATTATGACAGTGTGAACTGGTTCGAATCCACAAAGGTGATTCTGGGGGC  
CCCATCTTCATTGGTGACGAGGTTGTGGGCATTATGTCTCACGGCACAAATAAAGAAC  
GACGGGTCTTTTGATGACGAATCC

>RXN01974-upstream

ACAATATTTACGGGGATAATCTGCATTAACAAATTAGTTAATAAAGTGTAGTATTTAATT  
AATTATTAAATTCAATTAACCTTTTTTGTAAAGGTGGGAAG

>RXN01974

ATGACCCAGGTTGTGGCGGGTACGTTGGTGGGAGAGTCGATTAATCGTGAGATTGATGAA  
GACAAGTACCCTTATTTGAGCTCGTATGCAGCGCCTGTTGCTGTACCGGTGCGTGAGATT  
ATTGGGCGCGAAGAAGAAGTCAATAAGATTATGGCCGCGCTGATGCGTCCAGAGATTTCT  
AATGTCATGCTTGTGGGTCTGCTGGTTCGGGTAAACTACGTTGGTACAGCAAGCACTG  
GTGAAAGATCCAGAGCGTAACATACATCGAGGTGATGTAGCGAAAATGGTTGCGGATTTG  
AGCACCCCGGCGCAAATGGCTGCGCGTATTAAAGGTGTGTTTGAGGACGCCATTGCCTAT  
CGCAAGCACGAAGGTCATGAATTGGTGTGTTTGGTGTGATGAGTTTACCAAATTTGTGCAG  
CTGTCTAATGCTGCGGTAGAGGCAATCAAGCCGATTTTGGCGATGTCTGGTGTCTTGGT  
GTGCGCGTTATCGCTGCGACAACCTCTCGAAGAATTTACGAACACATCAGGCCGAACCAA  
GCATTGACGGAGCGTTTGCAGGAAATTCGACTAACGCCGACCGATCAGAAGACCACTGTG  
GCGATTTTTCGCTGGTATGGCAGATCGTTATGGCGTAAGTGATCAGTTCTATGACGACCAC  
GTTTTTGTAGCAGATTTACTCCACCACTGAGCGTTTTATGCCGAGTTCTGTCCAGCCTCGT  
AAATCCATTTCGTGTCTTGTATGCGATGGTTGGTGGCATCGACTTTCGGCAAGCCGATG  
GATATGGATCTGCTCGGTGATGTGCTCCACGATGCTATTGGTGTGATATTGCATTCAAG  
GTCGATGGTACGAGCATTAAAGACAAGCTTGATGAGAAGGTAATGGCGCAAAGTCTTGCC  
ACCACTGTGGTAGCACGTCGTTTGCAGCTGGTGGTGGCGGATCTTCATGATAAATCACGG  
CCACTGTGCAACTTCTTGTTCACCGGGCCTACTGGTGTGCGGTAAAACAGAGCTGGTCAAG  
CAACTAGCACGGGTGCTCTTGGTGTGACACTGGGCGATTGATTCTGTTTGCATGTCA  
GAGTTTCGCCTTAGAATCAAGTCTTGACCTTTTCAGGTCTGAGCTCACTCGTCTGTGCTGCT  
GACCAGGGTAACGCTATTGTCTGCTCGATGAGGTTGAGAAAGCTGATCGAGCTATTGCG  
CGGTTGTTACTGCAGGTAATGATGATGGCCGACTATCTGACGATTACAACCGTGAGGTG  
AGTTTTCTTAATACCTATATCGTCATGACAATAACGCTGGTTCTGAGATTTTCGAGACA  
ATTTGCAACTATGCCACTGATGACACGGGCGATGGTGGGCGATCAAAGACTTTGTGAAA  
AACATTACACGTCGATCAAGAATAAGGGTTTTCCACCTGAGCTTCTTGGTCTGTAGAT  
GAAATTGTGCCTTTTCAACCGCTGTCCGAGACGACACAGGACAGGATTATTAGCAAGAAG  
CTGCAGGATGTGGCTACTGAGGTCTATGAACGCCACGGCGTGAAACTGCACTGTTCAAA  
AAGGTTATGGAGTTTCTGCTTGTGGATCAGGTGGAGGAAAGTGTGAATCTGGTGGTGCC  
CGTGGTGCGGTGCGGTCTTTGCAGCGGGAAGTGGTCACTGAAGTGGCGACCTTTATTAAT  
ACCTACCCAGAAGTGCGTGACATTTACGTTGATGTGATGGTTCAGATGCGTAATAAGACT  
AACCGTGTGTCTACGGCCCGTGTGGTGATAAAGCGTGTGCAAGGT

>RXN01974-downstream

TAATTACTCTGGGGTCGCTTAAA

>RXN01993-upstream

CTTTAGGAGTTCACC

>RXN01993

ATGACACTGTCCGAACGCAAGCTCACCACCACCGCCAAGATTCTTCCCCACCCACTCAAC  
GCCTGGTACGTCGCCGCTTGGGATTATGAAGTCACATCTAAAAAGCCCATGGCCAGGACA

ATCGCCAACAAACCACTCGCTTTGTACCGCACCAAGATGGCCGAGCCGTTGCCCTTGCA  
 GACGCCTGCTGGCACCGCCTCGCACCGCTATCCAAGGGAAAACCTCGTGGGCACAGACGGA  
 ATCCAATGCCCTTATCACGGCTTGAGTACAACCTCCGCGGGCCGCTGCATGAAAATGCC  
 CGCAGGAAACCCCTCAACCCGTCAGCAGCCGTCAACTCCTACCCCGTGGTGGAAGCCCAC  
 CGCTTTGTGTGGGTGTGGCTGGGCGATCCACATTGGCAGATCCCACCAAGTACCCGAT  
 ATGCACCAGATGAGCCACCCGAATGGGCAGGCGATGGACGCACCATCTCCGCTGACTGC  
 AACTACCAATTAGTGCTGGACAACCTGATGGACCTCACCCACGAAGAGTTTCGTGCACTCC  
 TCCAGCATCGGACAAGACGAACCTTAGTGAATCAGAGTTTCGTGGTCACCCACACTGAAGAT  
 TCCGTGACGGTCACCCGCTGGATGCATGACATAGATGCACCACCGTTTTTGGCAAAAGAAC  
 ATGAATGATAAGTTCCAGGATTTGAAGGCAAGGTGGATCGTTGGCAGATCATCCACTAC  
 TACTACCCTTCCACCATCTGCATTGATGTTGGTGTAGCAAAGGCTGGAAGTGGCGCGCAG  
 GAAGGCGACCGCAGCCAGGGCGTTAATGGGTATGTCATGAACACCATTACCCAGATTCA  
 GATCGTTTCTCTCATTACTTCTGGGCATTTCATGCGCAACTACCGCCTGGAAAGCCAAACC  
 ATCACCACCCAGCTGCGCGACGGTGTATCCGGTGTATTCAAAGAAGACGAAGACATGCTG  
 ACCGCTCAGCAAGATGCCATCGACGCCAACACCGACTACGAGTTTTTACAGCCTCAACATT  
 GATGCCGGTGGCATGTGGGTGCGCCGAATCCTCGAGGAAGCACTCTCCAAGGAAGGCCGA  
 CTGGATATCCCCACCACATTCCCCCGCGCAACACCGAAGCCGGAGGCA

>RXN01993-downstream  
 TAAACCATGAACTCGCAATGGCA

>RXN01997-upstream  
 AAAAAGGTGGGAAACTTAGCCAATCCAAAGCCCCAAAATGCGGGTTATGCTGCGCTAACC  
 TATGCTGACAGCCTTGCGGAAGTTGTGTACGTTAGGGGCC

>RXN01997  
 ATGACAATCAACGAGAAGATCGCATCAGCTTTCAACAACCAAGTGAAGTGCAGAGCTTGAA  
 GCTTCAATGGTGTACCTTCAGCTCTCCTACGTTCTAGACGATCTGGGCTCACCGGCATG  
 CGCGACTGGATGAAGGCACAGAGCAAAGAAGAGCTCGAACACGCACAGAAGTTTCGCTCAG  
 CACCTTCTTGACCGTGACTACACCCACAGATCGGTGACATTGCACCACCAAGCTTGAT  
 GTCACCTCCGCTATCGAGGCTTTTCGAGGCTTCCCTGGCACACGAGCAGAAGATCTCCGGC  
 CTGATCCGCGAGCTCGCTGCCATCCAGGACGCTGAGAAGGACTACGATTCCCGCGCACTG  
 ATCGACTGGTTTCTCAACGAGCAGATCGAAGAAGAAGCAACCGTCGGCGAGATCATCGAC  
 CGCTCCGTATCGCTGGTGATTCCGGTTCCGGAATCCTGCGCATCGACGGCGAAGTCCGGC  
 TCCCCG

>RXN01997-downstream  
 TAAATTCCCCGAGTTTTTAATG

>RXN02001-upstream  
 GCGGTTTCGTCATGGATAAGGACTGTGTTCCGGACCATTGCGATACTCGTGTCAAAGGC  
 GATAGTCCAGCATAGACCGTGCTTTATCGAAGGTGAACCC

>RXN02001  
 ATGCCCCGTTATCAATAGTATCGCCAGTTTTTCCGACGAGATGACCCGCTGGCGGCGTCAC  
 CTGCATCAAAACCCCGAAATCAGCTTTGATTGTGTGGAACTGCGGCCCTTCGTGGCCGAG  
 CAGCTGCGCAGCTTCGGGGTGGATGAAATTCACACCGGCATCGCGAAAACCGGTATCATC  
 GCCCTGATTACGGGCGCGAGGCTGGCCCCGTGCTCGGCCCTGCGCGCCGATATGGACGCG  
 CTGCCGCTGACCGAGATTACCGGCGTCGACTATGCCTCGACCACCCCGGAAAAATGCAC  
 GCCTGCGGCCACGACGGCCACACGACCATGCTGCTGGGCGCCGCCAAATATCTGGCCGAG  
 ACGCGCAATTTTCGAGGTACCGTCGCGCTGATCTTCCAGCCTGCGGAAGAAAACGGCGGC  
 GCGCGGGCGTTATGGTCGATGAAGGCGTCTCGACCGCTTTGCCATCGCCGAAGTCTAC  
 GCCCTGCACAACCAGCCCGGCCTGCCGCTTGCCATTTTATGACGACAGCCGGCCCGATC  
 ATGGCCGCTGTCGACACGTTTCGACATCAACATTACCGGACGCGGCGGCCACGGTGCCAAA  
 CCGCACCAAAACCCGCGACCCCATCGTCGACCGCTCGGAATTGTCCAAGCGTTTCAAACG  
 ATAGTCAGCCGGAATCACAATCCGGTCGAGGACCTTGTGCTGTCGGTCACGCAATCCAC  
 ACCGGCAGCGCCGATAATATCATCCCCGAAACCGCCTATATCAACGGCACTGTCCGCACC  
 TTCAACAAAGACGTGCAGGCCATGGTCATCACGCGGATGGAAGAAATCGTCGCGGGCCAA  
 GCTGCAGCCTATGGGGTCGAGGCGACGCTGACCTACAACCGCAACTATCCCGCCACCATT

AACGACGCCGCCAAAGCCGCCATCGCTGCCGAAGTCGCGGGCGAGGTCGGCCTCGGGGT  
AACCCGAACGGCTCGCGCGGGATGGGGGCCGAGGATTTCTCGTATTTCTCGAAAAGCGC  
CCGGGTGCCTACCTGTTTCGTTCGGTAATGGCGACAGCGCGGGCCTTCACAACCCCGCTAT  
AATTTCAACGACGAGGCCGCGCCCTACGGCGCATCGTTCTTGGCCCGCATGGCAGAACGC  
CCCTTGCCGTTAAAGGGC

>RXN02001-downstream  
TGATCCATGGCGCTCGAAGATGC

>RXN02053-upstream  
AACCAGCCAGAACTATCTCCAAAAGCTAATAAAACCCTTGCACTGACAAATAAGGCGAC  
CTACCATGACTCTGTTTCCAACACATAAAAAGGATAAAAA

>RXN02053  
ATGTCACTTTTCAGTCGTTCGAGGCGATTACCAACCGCCGCGCCACCCGCAAATACACCGAT  
GAAGCTCCTACCCCTGAGCTGATCGACAAAATCGTTGACCTTGCCCTGGAGGCACCCAGT  
GCGTTCAATGCGCAGCAACGTGAAATTGTTGTGATTACTGATCCCGCACAGAAGCAGAAG  
CTTTACGAGGCCTCCCATCAGAAACAATTCCTCACCGCACCTGTAACCTTTTCATTGCGGTT  
GCCCGCGTGGAAAACGAGCCTGAGGATTTGGAAGAGATTCTTGGTACGGAAGGGCTGAA  
CGTGTGCGGGGATTTCATCAACGGTCGCAGCATTTCAGCAGGCACGCGAAGCAACGTTGAGG  
GATGCCAGCCTCGCGGCGGCTTTTCTAATTCTGGCTGCCAGGCGGAGGGTTTGAGTACC  
AGCCCGACTACTGGTTGGGATGAGGAAAAAGTGAAGGAAGCAATCGGTCTCGGCGGGCGT  
GAGGATCGTGCAATCGCCCTTGTTATTGCTACCGGATTCCCTAATGAACAGCCGGAGCAC  
CCTGGTCGTTTGAGAATAGGCGCATCGACAACAGCTAC

>RXN02053-downstream  
TAACTCTGCCAGCTCGCCCGGAC

>RXN02146-upstream  
GGTTCTCTCGCAGAGAGAGAAGGAGTGGGGATAGGGGCCTTCCGCTCCGAACCCGACAGC  
TAACTCGGTTCAGCAAACAGGAAGAATTTGGAGTTTCATCA

>RXN02146  
GTGGGTAAGCACCGTCGCAACAATTCAAACGCAACTCGCAAGGCTGTAGCAGCATCTGCA  
GTTGCGCTTGAGCAACCGCAGCTATCGCCTCCCCAGCACAGGCAGCTGAGGTTGTTGTT  
CCTGGCACCGGAATCAGCGTTGACATCGCTGGCATCGAGACCACTCCAGGTCTTAACAAC  
GTTCCAGGAATCGATCAGTGGATCCCTTCCCTTAGCAGCCAGGCAGCTCCTACTGCTTAC  
GCAGCCGTTCATTGATGCACCTGCAGCACAGGCTGCACCTGCAGCAAGCACCGGTCAGGCA  
ATCGTTGATGCAGCGCGCACCAAGATTGGTTCCCATACGGTTGGGGTGCTACCGGTCCT  
AACGCTTTTCGACTGCTCCGGCCTTACCTCATGGGCATACAGCCAGGTTGGCAAGTCCATC  
CCACGTACCTCCCAGGCTCAGGCTGCACAGGGCACCCCTGTTGCTTACTCTGACCTTCAG  
GCTGGCGACATCGTTGCGTTCTACTCCGGCGCTACCCACGTTGGTATCTACTCCGGCCAC  
GGCACCGTTATCCACGCACTGAACAGCAGCACCCCTCTGTCTGAGCACTCCTTGATTAC  
ATGCCATTCCACTCTGCAGTTTCGTTTC

>RXN02146-downstream  
TAATCTGCATAAAGTCTTAAGCT

>RXN02274-upstream  
ACAGGTGCAAGCTGCTGAACGTGGCCGAACTAGATGACGCCACTGATGTGGACACAAA  
TGTGGGCACAGAAGAAGGCTTTGAAGAAGGTCGAAATTAA

>RXN02274  
ATGAGTTTTGAGATTTCCCGCAAGCAGTACACCGACCTTTATGGTCCAACCGTTGGCGAT  
TCAGTACGCTTGTGATACTGAGCTTTTTCTCTGTGTGGAAAAAGATTACGCAGCAATC  
GGCGAAGAAGTAGCATTCGGCGGTGGCAAGGTCATTTCGTGATGGCATGGGCCAAAATGGC  
ACCTTGGTTTCGCGATGTAGATATTCCCGATACCGTCATCACCAACGTCATCGTCCCTTGAC  
TATACGGGTGTGTACAAAAGCTGACGTTGCGCTTCGAGATGGCAAAATCTCCGAATCGGA

AAGGCCGGAAACCCGAATGTCATGGAAAACGTCGACATCGTCATCGGCGTTGCCACCGAC  
 ATCATTGCTGGTGAAGGCAAAATCCTTACCGCAGGTGGCATCGACACGCACGTGCACTTC  
 TTGGGCACAGACAGGTCAACACTGCATTAGCATCAGGTATCACCACGATGATCGGTGGA  
 GGCACCGGCCCAAGCCAGGCGTGCATGGCTACAACGTGTCACGCCAGGTGAGTGAATACC  
 TACAACATGCTTAGTGCTTTTGAAGGCATGCCCATGAACCTTTGGCATTTTGGGTAAAGGC  
 CATGGTTCTTCCAAATCTCCGCTGGCTGAGCAGGTTCTGCGGGTGCAATCGGTCTGAAA  
 ATTACGAGGACTGGGGTGCCACACCATCGTCGATCAACACTGCCCTAGAAGTAGCCGAT  
 GACATGGACATCCAGGTGGCACTCCACTCCGATACCTTGAATGAGGCCGGTTTTGTGGAA  
 GACACCATTGAAGCCATTGCGGGCCGAGTCATCCATACCTTCCACACCGAAGGTGCTGGT  
 GGTGGACACGCTCCTGACCTAATCCGAGTGGCTGCTCTGCCAAACGTGTTGCCTGCATCC  
 ACCAACCCAACGCTCCCATACACCCGAAACACTGTTGAAGAGCACCTGGACATGGTGATG  
 GTTGCCCAACACCTCAACCCAGATATTCCAGAAGACGTGGCTTTTGCAGGATTCCCGAATT  
 CGTGCCGAAACGATTGCAGCCGAAGATGTGCTTACGATATGGGTATCTTCTCTATCACC  
 TCTTCGGATTCCAGGCGATGGGCCGAGTAGGAGAGACCATCACGCGCACGTGGCAGGTC  
 GCCGACCATATGAAACGCACCCGTGGATCACTAACGGGAGATGCTCCATAACAACGACAAC  
 AACCGCTTGCGTCGATTTCATCGAAAATACACCATCAACCCTGCGATTGCGCACGGTGTG  
 GATTATGTTGTTCTGTTAGTGGAGGAAGGCAAGTTCGCTGACCTCGTGCTGTGGGATCCA  
 AAGTTCTTTGGTGTGAAACCTGATCTGGTGATCAAGGGTGGGTTGATGGTCAATTCCCTC  
 ATGGGTGATTCCAACGGTTCCATTCCAACCTCCGAGCCCCGACCCCTGCGCAATACTTGG  
 GGTGCGTTTGGCCAGGCAGTTTCCAGAAGCTCCATTACATTCTATCCCAGGACGCTATC  
 GATGCAAATGTTCTGATCTGCTGAATCTGAGGAAGCAGATCCGGGGCGTTCGAGGTGTA  
 AGGAATCTGACCAAACGAGACATGAACTCAATGCAGAAATGCCTGATATTCGTGTGAT  
 CCAGAGACCTACCAAGGTGTTTGTCAACGGTGAGTTGATCACCAGCAAGCCAGCAGAGACA  
 GTGCCAATGGCACGTCGCTACTTCTTGTTT

>RXN02274-downstream  
 TAATCCGCCAACAAGGAAGGAAG

>RXN02334  
 GTCAAAGACCTCAACGATCCCCCTACCCGCGATTTCATTGACGGTGAAGCTTTCGCTGAG  
 CTGATGAACCGCAAGGGCATCGCTCGCGATGACACCGTTGTTGTCTACGGTGACAAGTCC  
 AACTGGTGGGCTGCGTTACCCCTGTGGGTCTTCAACTGTTGCGCCACTCCGATGTCCGC  
 CTGCTCAACGGCGCGCGACGCGTGGATGGCTGAAGAGCGCGACACCTCCTACGTGGTT  
 CCGGAGTACCCCTCCGCCAACTACCCCGTCTGAGAGCGTGTGACGAAAACAGCGCGCG  
 TTCGTGGCTGAGGTGCTCGGTTGCTCACGCAATCCGGTGGCATGACGCTTGTGACGTC  
 AGGACCCCTTCGGAGTTCTCCGGATTGGATGAGCACGGCAACCCAACCTCAAACACCGGC  
 GTGCTTCGTGGTGGACACATCCCAGGCGCGATCAACCTGGATTGGTGGACGCTGTTCTT  
 CCCAACGGAACTTCCGCACCCGTGCAGAGTTGGACAAGCTCTACGCCGATCTCAACCCA  
 GCTGACGATACCGTTGTCTACTGCCAGGTTGGCGACCGCGCGGCCACACCTGGTTGCTG  
 CTGAAGTATCTGCTCGGTTTCAACAACGTTCCGAACTATGACGGATCGTGGGCAGAAATGG  
 GGCAATATGGTTCGCATGCCGATCGAACTGGCGAAAACACCAAAAATAACGTTTCCGGTG  
 TCA

>RXN02334-downstream  
 TAGAATAGGCGTATCCCCTTTTT

>RXN02478-upstream  
 GACATCGTCGAAGCGCTCTCCAGCGGCAACATCGACGATTATCGCAGCGCCGTGCTCGCT  
 CACTACGCGCCGTTTCGCCGATGATTTCCAACATGCTCG

>RXN02478  
 ATGCGCACTAGCCTCATTGCGCGCGGGTTGTACCGCATTCGCCGCGTGGTCTGGGATCAG  
 GGTCTTTTAAACGCTTTTCGACGCCCCGCTCAGTGTGACGACCTCCCCGCACCCATCGAC  
 GTGGTGTGACGCGATCCTCAGACGGCATCACCTGGACCACCCAGAACCAGCAATCGTC  
 GAAACTGAACACCGCGGTGTGGGCGATGTCTGCCTTGTACGGGCGATCTGTGCTTCCAC  
 GGATTGTCCAACCTCGCAGGATTTTTTGAGGATCCCACCGACCTTGAACCCGGCTGGCG  
 CGCCGGGATGTGAGTGGGTGGACGTCGATAAGCATGGCCCACTATTTGCGGATGTTGAT  
 GCCGCGTTTCGCTCGTGGGGACGGGACTTGTCTTGGCGGATGGGCGGTGGATTGAGAGT  
 TTTGTGGTGGCGCGGGGCGGAGATTTGCTTGGGATCTGCGCAGCGATGGCCACATC

ACCGATATTGCCGGCGGTAACGAATCCGCGATGACGCAGCTGCCGAGCGGTCCGATTGTG  
CTGCATTCCAGGGGGGTGGGACACCGTCTGAGCAGTGTGTCCGATGATTTCCGGGAGACA  
TTCACCTCCGCTGGAGCCTGTGCCTGAACTAATCGACCCCGGCTGCAACGGCCACGTGTTT  
TACTGGAAGCGGCTGGAATGCTCGCCGCAACGCACCTGGCGGACCCTGATCTGCGACGC  
CACTTGGTGGTTGATTTATCCAGCGACGAAGGAGCGACCTGGGCGCATCGCATCACCATC  
GAGCGCAAGAAGCGCCCTATTCAACCGCTGCGGAAATGCCCAACGGAGATGTTGCCGTG  
GTGTGGGAAGCAGAGGGAACGCGCGGATAAAATGCACGGTGATCAGCGTAAATGATATT  
TCGCTGCGGATCGATGAGCCCATTTCCGATGCCATATCCCTCCGCCATGTGGTGATCAAC  
GATGACCATGACGGCATCGAAGTCGCACTGCCTGACGCATCGCAATGGGGTGAAGGTGTA  
TTCAAATTTGTGTCCAATCCAGACGCGAGCACCCAAAAAATCCGCACTCGAGGCAAGCCC  
GCGCGACAGACCCTGGAAATTTGGGGATGAATTGGTTTTTATATCCGCAAGGGTGGAGAA  
GTGGCTTACGGCGTCACGGTTCCTTATGATGGTCGCTCGTTGGGGGAAGTTAAACAGGAT  
TTTGGAGTGGGGCTG

>RXN02478-downstream  
TAGAGGCCGATTTGCGGTCCCTT

>RXN02508-upstream  
TGCACACTGCTGGTGGTGAGGCCGAGACCTGGCAGCCGCAAGCAAAGCCTCCGAGGCC  
AACTCGCGGCTCAGTAAAACCAAAGGAATCTTTGACCAC

>RXN02508  
ATGCGTACATCCATTGCCACTGTTTGTGTTCGGAACTCTTGCTGAAAAGCTGCGCGCA  
GCTGCAGATGCTGGATTGATGGTGTGAAATCTTCGAGCAGGACTTGGTGGTTTCCCCG  
CATTCGGCAGAGCAGATTTCGTGAGCGGGCTCAGGATTTGGGATTAACCTGGATCTGTTT  
CAGCCGTTTCGAGATTTCAAGGTGTGGAAGAAGAGCAGTTTCTGAAGAATCTGCACCGC  
TTGGAAGAGAAGTTCAAGCTGATGAACAGGCTTGGCATTGAGATGATCTTGTGTGTTC  
AATGTGGGCACCGCGACCATCAATGATGATGACCTTTTCGTGGAGCAGTTGCATCGTGCA  
GCAGATTTGGCTGAGAAGTACAACGTCAAGATTGCTTATGAAGCGTTGGCGTGGGGCAAG  
TTTGTCAATGATTTTGAAGCATGCGCATGCACTTGTGGAGAAGGTGAATCACAAGGCGCTG  
GGAACCTGCTTGGATACGTTCCATATTCTTTCCCGTGGTTGGGAAACCGACGAGGTGGAG  
AACATCCCTGCGGAGAAGATCTTCTTTGTTTCAAGTACGCGGATGCGCCGAAGCTGAGCATG  
GACATTTTGTCTGCTGCGTCCGTCACCAACCGTGTTCCTTCCCTGGTGAAGGCGATTTTCGATCTG  
GTGAAATTCATGGTTTCATCTGGCCAAGACGGGTTATGATGGCCCGATTTCTTTGGAGATC  
TTCAACGATTCTTCCGCAAGGCGGAGGTTGGTTCGACCGCGATTGATGGGTGCGTTCT  
TTGCGTTGGTTGGAAGATCAGACCTGGCATGCGCTAAATGCTGAGGATCGTCCAAGCGCT  
CTTGAAGTGCCTGCACTTCTTGGAGTGCAGGACCTGAGGGTGTGATTTTATTGAGATC  
GCCACTGGACGTTTGGGTGAGACCATTCGGGTTCTTCATCAATTGGGTTCGCGTTGGGT  
GGTCATCACTGCAGTAAGCAGGATTACCAGGTATGGACCCAGGGCGATGTGCGCATTTGTG  
GTGTGTGATCGTGGGGTCACCGGGGCTCCAACCACGATCTCTGCGATGGGCTTTGACACC  
CCCGATCCAGAAGCTGCTCATGCCCGTCCGGAATTGCTGCGGGCTCAGACAATTGATCGT  
CCCCACATCGAGGGCGAAGTTGACCTAAAGGTGTGTACGCACCGGATGGGGTGGAGCTG  
TTTTTCGCGGGGCGAGCCCCGATGGAATGCCCGAGTGGCTGCCGGAATTCGCGCTCGAA  
AAGCAAGAAGCTGGTCTCATTTGAAGCCATCGACACGTCAATTTCCGCCAGCCGTGGCAA  
CATTTTGTGAGGCGAGTGTGTTTTACACCGCGCTGATGGCGTTGGAGACTGTGCGTGAG  
GATGAGTTCCCGAGCCCAATTGGTTTTGGTGCAGCAATCAGGTGATGCGTTCCGCCAATGAT  
GCGGTGCGGTTGCTGCTCAGCGTGGCGCCGAGGACGGTGAGCAGGGAGATTTCTCAAC  
GCGGCCTACCCGGAGCACATTGCGTTGGCCACGGCGGACATCGTGGCGGTGGCTGAACGT  
GCGCGCAAACGAGGCCCTGGATTTCTTGCCCGTCCAGAGAATTACTACGACGATGTGCAG  
GCGCGTTTTGATTTGCCGCAAGATTCTTGGACACACTCAAGGAAAACACCTGCTTTAC  
GACCGCGACGAGAACGGCGAATTCCTCCACTTTTACACCCGACGTTGGGCACGCTGTTT  
TTCGAAGTGTGGAAACGCGCGGGGTTTTGAGGTTGGGGCGAAACAAACGCTCCGGTG  
CGGTTGGCGGCGCAGTATCGTGAGGTGCGGGACCTCGAGCGGGGAATCCCAAAC

>RXN02508-downstream  
TAGCATCCCGAACTAGCCCCCA

>RXN02513-upstream  
ACAGCACCGTTTTGTAGGATAAGAAAATCCCGCACACAACCCGTCCTGGTGGGTGAAGTG



GGGGAGGCATGTCTATGCCCCCAATTAGACATCTGACATC

>RXN02513

ATGCTTCCAATCTGGATGGGTCTTCCATTCAAGAAAGCAGGTGCTTTGTCTCGGCGTAAAGCAGTATTCTCAGCGCTTGGTGCAGCCGCACTCATGGGCGCAGCACTACCCACCATCCCCACGGCCCAAGCTCAAACACCCACGGGCTACGGATTTCGATGCAACAGCAAGCATCAGCGAAAGAACAGAGTTTTCAACACAACAACCTCGCTGACGGCGGAACCTCTCGGATTTGATTGCTACCGCATCCCATCGCTTGGCGTGCACCCCAACGGCAACGTCCTCGCATCGTGGGATGGTTCGCCAAACAACCTGTTTCAGATGCTCCACAACCCCAACTCCATCGTGGGCAAGGTATCGACCGACAACGGAGCAACCTGGGGCGAACAGCACGACATTTCCGCAGGTATCACCGCCGAACCCAAAACCTGGCTATTCGGATCCCAGCATCGTTGTGGACTGGGAGAGGGGGCGATGTCTTTAACTTCACGTGAAGTCATTTCGATGCAGGATACTTACCTCCCAACAGGCACGGACCCGGATGATCGCAACGTTGGCCATGTTGCCTACGCCAAATCATCAGATAACGGCTCAACCTGGGTGCAACACCGTCATTACTGATCAAGTGGTTGCTCATGACACCTGGGACAGCCGATTTGCCACAATCCGAAACGGCATCCAACCTGCAATACGGCGCGTACAAGGGACGATTGGTCCAGCCATCGTAACCTCGCATG

>RXN02530-upstream

GAGGCTGAGCTTTCCGTCAAACAACATCTTCCCAATGTGGATGAAATGACTGTGACCATCACCCCTTCCAAACCTTGAGTCCCGTGATACAATTGTTGAT

>RXN02530

ATGTCAACAATTATGAAGCAATCATCATTGGAGCAGGTCAGGCTGGACTCGCGGCGGGCATGAACCTTTCCCGCCGGGTTTCACTCCCGGAAAAGATTTTCTCGTCTCGATTCCAACGACGGGCCCCGGTGGCGCCTGGCGGCATAGGTGGGATTCACTCACATTAGGTAAAGCCACGGAATCGCCGATCTCCAGGGCTTCCCATGAATCGCCCCGATCCGAAAACCTCCGGCTTCCACATTGGTTGCTGGTTATTACGGCGCTTACGAGAACGAGTTCTCCTTCGCAGTTGTGCGCCAGTCAAAGTCTCACGAGTTGAGCCCACTTCCGAGGATCCTTCGAGCCCATTTGCGCGTGAGCAGCGACGATGGTTCGAGAGTGGATTACCCGCATGGTTCTTAATGCAACAGGTACGTGGACAAACCCTTATGTTCCGTACATTCTTGGCATCGATAAATTCAGGGCAAGCAGCTCCACACCGTTAATTACCGCAAGGCCGAGGATTTCAAAGGTAAGAAAAGTCTGGTCTGTCGGCGGTGGTTTGAGTGTGTGAATTTCTGCTGGAGTTGGAAGGCTTGGCGGAAACCACTGGGCGACGCGTCTGTCGCGAACTTACGCGAGCGCGAGTTTCGACGCGCGCTGGGGCATTTGCGGT

>RXN02530-downstream

TGAGCGCGCCGTCCGCGAACGCA

>RXN02565-upstream

GGAAATTTCGATACAGTGCGATGACGCGATATTAGAAAGAAAAAGATGCGCTTTACGACGAACCCCTCACCCCTCCTTCAGGAACCTTATCCGCAACGCCTGC

>RXN02565

GTGAATGATCTAACCCAGATTTCAGGTCAGGAAATTAGAAACGCGGAAAGCCTAGAACGTTCTTTGAAGGAACCCCAACGTTAAAATCACCAAGCTGGAACCGCATCCGGGCGCGGACCTCAATTATCGTGACTGTTCCAGGCAGCGATCCAGATGCTGAGCCTTTAACTGCTTGGACATACTGATGTTGTGCCTGTTGATCTGCCTAAATGGACTAAAGATCCATTCCGTGCGGAGATTTCCGGATGGACAGATTTGGGGTAGAGGGTCCGTCGATATGCTCTTTATTACCGCAACCACAGCGGCCGTACCCCGTCAAGTAGCCCGTGAAGGCGGCCTGCGTGGCACGCTGACATTCGTTGGCGTTGCTGATGAGGAAGCCCGCGGCGGACTCGGAGCGAAGTGCGTTTCCGAAGAACACCAAAACCTCTTCAGCTGGAAAACTGCCTCTCCGAATCCGGTGGATCGCACCTTCCAGTCCACGACGGCAGCGACGAGTAGTAATTAACGTTGGAGAAAAAGGTGCAGCTCAACGTCGTATTCACGTCAATGGCGATGCTGGTCATGGTTCCATTCTTTTCGACCGTGACAGCGCTATTGTCAAGATCGGTGAAGTCGCCCGCCGAATCGCTGCCCGCGATCTGAAGGTAGCCAAGGACGATATCTGGCAAGGCTTCGTCCAAGCGCACCGTTTCGACCCAGAAACGGAGCAGGCGCTTCTTAGCGGGACCTCCCCTGAGGCCTACGCAGAGTTTCGGCGGACTCTCCCGCTTCGCCCACGCGGTGTCTCATCTCACGATCGCCCAACTGTGGTTTCGTGCAGGTCAAGCCATCAATGTATTGCCATCGCATGCGTACTTGGAACTGGATATCCGTACCCCTCCAGGCCAAACCAATGACTATGTTGATGACACCCCTGCGTGCTGCTGGGCGATCTTGCCGATGAAGTAGAAATCGAACACCTCATCTCTGAAGAAGCAACGGTGAGCCCAACTGATTCCAGGTTGTATAACACC

TTGGAAAAAGTTCTTGGTGATTTCTTCCCCGATGCGCCTGTGGTCCCAATTATTTCTCT  
GGTGGCTCTGACCTGCGCTTTGGTCGTGCTAGGCGGTGTTGGTTATGGTTTTGCAGTT  
CATGCACGTGAACGAACCTTTGGCGGAAGCAATGGGGCAACTTCACTCCCATGACGAGGCG  
CTGTACCTGGAAGATCTTGAAGTACTGTTTCGGGGTTATGACTCCGTGCTGCGTGAATTC  
CTAGGC

>RXN02565-downstream  
TAAAAACATGAAGCAGGAGTCTT

>RXN02589-upstream  
GCCTAAATTGCAGCGAGAGGTCTAAAAGGTAGTGCTCTAGGGATTTCACAACTCACGA  
ATATTGAAGTTTTAAAGTTGAACAGGAAAAATAACAAATA

>RXN02589  
ATGTCTATTTCTGATAATTCCCGCGATCAATTAGGAGAACTGCCAGCTGGTCGGCCTCTC  
CAATCCGATTTTTGATAATGACCTCGACTACCCACGTCTAGGCAGTGTCACGTTTAGGCGT  
GGCACCCCTCACTGAAAACCAGCAAACCATGTGGGATGAAAAGTGGCCTGAACTGGGTGCG  
GTCCTCGAAGATGAGCTGATTGATGTTGATGCGTGGTTTCGGGCGCGAAGGCGCAAAAAACC  
ATCGTAGAGATCGGCTCTGGCACTGGAACCTCGACTGCTGCCATGGCTCCACTTGAGGCT  
GATACCAACATTGTGCGCGTCGAACTATACAAGCCGGGCTTGGCCAAGTTGATGGGCTCT  
GTTGTCCGTGGAGAGATCGACAACGTGCGCATGGTCCGCGGAGACGGCATCGAGGTGCTC  
AACCGCATGTTTTGCCGATGGGTCCCTGGACGGCATCCGCGTATACTTCCCGGACCCTTGG  
CCAAAGGCGCGCCACAACAAGCGCCGCATCATCCAGTCTGGTCCGCTGAACCTGTTTGCA  
AAGAAGCTCAAGCCAGGTGGAGTTCTGCACGTTGCTACCGACCACGCTGATTACGCAGAG  
TGGATCAATGAGCTAGTTGAGGTGCAACCACTGCTTGAGTACAAAGGCTGGCCATGGGAG  
GAATGCCCTCAGCTGACTGACCGTCAGGTCATCACCAAGTTTGAAGGCAAAGGCTTGGA  
AAAGATCACGTGATCAATGAGTACTTGTGGCAGAAGGTGCAAAAC

>RXN02589-downstream  
TAATGTCTGATGTGCATGAGGTC

>RXN02704-upstream  
CGTCTTTGGACATGTTCAAAGGCATGGGCCAGCGTGGCGACCTCTTTGCACACAACATCA  
TTGGCACAATCAAAGGATTAACGGAAGAGAAAGGCTGATC

>RXN02704  
ATGACCACCGGAGCCTCAAAAAAACC CGCACGTCCGAACACTGGCGCTAAAACCAGAACG  
GGGCTGGGAATTAGGGAGCGTATTTCCGGTGCATGGAATGATCTTCTCGCGCGCCCTTTA  
ACTGACTACATCATGATCTTGTGCATCGTGGTCATTTTGTGCTGCCTCGGTGTAGTCATG  
GTGTATTCCTCCTCAATGACATGGTCGTTGAGGGAAGGTGGCTCCGTGTGGGGTACTGCC  
GTGCGCCAGGGCATCATGATCGTGTGGGTTTCTTTGCCATGTGGGTGGCGTTGATGACG  
CGCCCGCAAACCATAGAAACCTATCCAACCTGATATTGATTGTGTCTATTGTCTTGCTG  
CTTGCCGTGCAGATTCTTGGCATTGGTACAGGTAAAGAAGAGGTGCGGTTCGCAGTCTGTG  
ATTGCTCTTGGACCTATTCAGTTTCAGCCTTCGGAGATCGCCAAAGTGGCCATTGCCGTG  
TGGGGAGCGCACTACCTCGCAGGCAAGGGCCCTGTGCAGCACTGGTTCAATAATCACTTG  
ATGCGTTTTTGGTGGCGTCGGTGCATTATGGCGTTTTTGTATCTTATGGAAGGCGACGCC  
GGCATGGCGATGTCTTTCGTGCTGGTTGTATTGTTTCATGCTGTTTTTTGCGGGCATCGCC  
ATGGGTTGGATCGCGATTGCCGGCGTACTGATTATCGCAGCCCTCGCAGTCTTGGCATTG  
GGCGGAGGCTTCCGTTCAAGCCGATTGAGGTGTATTTGATGCGCTGTTTGGCAATTTTC  
CACGATGTGCGAGGCATTGCCTTCCAGTCTATCAGGGCTTCCTCTCTCTGTCAGATGGT  
TCCGGCTTGGGAGTTGGTTTGGGCCAATCAAGGGCGAAGTGGTTCTACCTGCCCGAAGCT  
AAAAATGACTTCATCTTTGCCATCATTTGGTGAAGAGCTGGGGCTGTGGGGTGGCGCTCTG  
GTCATCGCACTTTTCGCGGGGCTGCTGTACTTCCGTCTGCGCACAGCCAAGAAGAGCCAC  
GATCCATTCTTGGGCTTGATGGCTGCAACCTTGACGGCATCCGTGGTGTGCGAGGCGTTC  
ATCAACATTGGCTACGTGGTTGGTCTGCTGCCAGTTACCGGTATTCAGCTGCCCATGATT  
TCCGCCGGTGGTACCTCCGCGATCATTACCTTGGCTTCCATGGGCTTGCTCATTAGCTGT  
GCACGCCACGAACAGAGACAGTTTTCTGCGATGGCTTCCATGGACGCCCCGCAATCGAT  
CGACTTCTGGGATTGCGTGAGCCTTCAAGTACTTTGACCACCAGTAATGCATCCTTGCGT  
TCCAACAAAACCAAGGCCGCTAAACAAAAGCCGAGTCTCAGAAAGAGTCTCGGGACCGC

TTCGGCGAGCCTGTGACCGCACGCCGAGCGCAGGCCACGAAGTGGGCGAGCTGGAGTA  
 CAATCGGAAGCTCCGCGACGCTCGACTGGTAGCGTCAAAGGTCGAAGCAGTGGTCAGGAC  
 AACGGTCGAAGCAACGAAGGTACGGCGCGTAGCCAATCAACTACTGGTGGGCGCGCAGCC  
 GATCGCAGCGTTGATCGAAGTCGTCAAAGCAGGCCTACCGAGCGCCGTTCCGAGAGTCGC  
 GCGATGATTGGCGTGACAACCGCAACCGCAGATAAATGTGAAATCAGGAGAACTACGAAT  
 AAAGATGGC

>RXN02704-downstream  
 TAACTCCCCAAAACCCATGCGGG

>RXN02707-upstream  
 TTTTGATGACCGCGAAGAAGTTCGCGCTGCTTTGACAGAAAAGCTCAACAATAAACTTCC  
 CCTTACTACGGAAGAAGGATAGGCCACAGTCATGATCACA

>RXN02707  
 ATGACCCTTGGGGAAATCGCTGACATCGTTGGAGGCAGGCTTACTGGCGGTGCTCAAGAA  
 GATACGCTTGTGAGCTCCAGCGTGAGTTTGATTCTCGATCCCTCACACCGGGTGGCTTG  
 TTTTGTAGCACTTCCGGGTGCTCGTGTAGACGGCCATGATTTTGCTGCAACTGCAATTGAG  
 AAAGGTGCGGTGTCAGTATTGGCAGCCCGTGAGGTTGACGTACCTGCGATCGTCGTGCCT  
 CCAGTAAAAATCCAGGAATCCAATGCTGACATTTATGCTCATGATCCAGATGGGCATGGC  
 GCGGCGGTAGTGGAGGCGTTGTCTCGGTTGGCTCGCCACGTGGTGGATATCTGCGTGGCT  
 GGCCATCAATTGAACGTTGTGGCTATTACTGGTTCTGCGGGAAGACTTCTACGAAGGAT  
 TTCATCGCGACGTTCTTGACCAAGATGGGCCAACTGTGGCTCCTCCGGGCTCGTTTAAAC  
 AATGAGCTTGGTTTGCCACACACCGCGCTCCGCTGCACAACCGATACTAAGTATTTGGTG  
 GCTGAGATGTCCGCGCGTGCCATTGGACATATTAAGCACCTGACAGAGATTGCTCCGCCA  
 CGGATTGACAGCTGTGCTCAACGTCGGCCATGCGCACCTGGGTGAATTTGGATCCCGCGAG  
 AATATCGCGCAGGCAAAAGGCGAGATCATTGAAGCGCTGCCCTCGAAGAAAACGAGCTCG  
 GTACCACTCCTGAATACTGATCCTTTTGTGCGCCGGATGGCTCCACGCACTAAGGCGCGC  
 GTGGTGTGGTTTACCACCGATGCAGGCCAAGCAAAAAGTCTGATTATTGGGCAACGAGT  
 ATTTCACTGGACGCTGTTGCGCGGGCAAGCTTTACGCTGAACACGAAGGACGGCTCTTGG  
 CCGGTACCCCTGCAGGTTTGGTGAGCACCAGGTTGCTAATGCACTTGCTGCTGCTGCC  
 ATTGCCATGGAAGCTGGCGTCGCCCCAGAATTGGTGGTTGCTGGATTGGAAGCACATTCA  
 GCTGCTTCCGCGCACCGCATGGATGTAAAGACCCGTGCCGACGGCGTGACCATCATCAAC  
 GATTCTTACAACGCGAATCCTGATTCTATGCGTGCAGGTATCGCGGCTCTTGCGTACACA  
 GCTAGTGGTCTTCTGAAGCAACAAGCTGGGCAGTGCTTGGCCAAATGGGTGAGCTTGGC  
 GATGACGCCTCGGAAGCCCATGCCGAACCTGGTGCTGAGCTGGCTAAATACAATGTTCAA  
 GAACTTGTGCGAGTGGGGGAGAACCCTAACTGTGCAGCACTTGACAGTCCGCAGCGAGC  
 CTGGGTGTGAGTACTACGTAGTTTCAGACGTTGATGCAGCGCTCGAGTTGCTCGCAGGC  
 CATATTAAGCGGGATGATGTAGTGTGTTAAGGCTTCAAATGCTGATCGCCTGTGGAGG  
 GTCGAGAAAGCACTACATGGCATGGTGCCGGGCTCAAAAACACAGGTGGCTCGGTCAAC  
 GACGATTCTCGTCCGAACGTGGAAGGACAG

>RXN02707-downstream  
 TAGAAAACAATGCAACAGATTAT

>RXN02723-upstream  
 CGTGCTACCATGGGTGCAGGTTCCGTGACCATGCTTGCTCCAGAAATCCTGGATCAGCT  
 GCAAAACAATTAGGACGTAAGTGAACAAGGCAGGACTAGC

>RXN02723  
 GTGAACAAAAAGTCATCGCCATTGTTGTGGGTGTGGTTGTTGTCCTCGTGGCAATCCTG  
 GCGTTGTTGCTTGGTTCCGTTCCCATCCTCAAGGTGGGAAACATTGAAGTAACCGGTGCA  
 ACGCGCACATATCCGGATCAAGTACTGGAAGTCTCCGGGATTGTTGAGGGCAAAACCTC  
 TTCCGCGTCGATGCGACTGCAGCAGGGCAAAACATTGTGGAATTGCCCTGGGTGAAATCG  
 GTGACCGTTAACCGTGCCCTGCCAAGCACCATACCGGTGGAGCTGACAGAGCGTGAGCCT  
 GCAGTGTTCATCAAGCGTGCTGATGGTGACCATGTGATTGACACCGAGGGTAAAGAAATT  
 ATCATTGGAACACCCCCGGTGGGAACAGTAGAAGTTTCTGGCGCGGATGAAGGAACTCA  
 GAAGTGCTTCTGCGGTTATTGCTGTAATCAACGCAATTAAAGCGCAAGATGCGCAGATG  
 ACAGAAAGTATCCAGGTAGTGAAGCTCCGGATCAATTTGATATCTTGCTGAAAATGAAT

GATGGCCGGGAAATCTACTGGGGATCCTCGGAAAACAACCACGATAAAGCGGTGGCAATG  
TCGACTGTTTTGAAGCGGGAAGGCCAACGTTGGAACATTAGCTCACCTCAATGGTGACA  
GTCCGC

>RXN02723-downstream  
TAAAGTGGCTGGGTAGTTCCGGT

>RXN02813-upstream  
GGACTCTAAATTGACCCGATCTTTATACTCCGACCTTGCTGGTAGTGAGAACACCTCAG  
CAGCCTTTCCGACGAGACTTTCCCTAAAGAATCTTCTTGTC

>RXN02813  
GTGGAGGCCGCTTTGGCGGTTGCAGCTGCCCCGAGCACGCAGCAATGGCGAAGGCCACC  
ATTGATTCTTATCAGTTGGATGTGGAGGAGCTTTCCCGTCGCGCAGCCGAGGGCGGTAAT  
CCGCTCATTCCGCTGGTCACTGACCTCAAGGCCATCAATCCGGCAGGCATCCACATTGGC  
GCAACGAGCCAGGACATCATTGATTCTGCGTTAATGCTGTGCATGAAGGAAGGGGTGGGG  
GAGGTGCTCGACAAGCTTAAAAAGCTTGCGCGAGATTGGCCGAGCTCACCGCGGAGCAT  
AAAGCAACCCCGATCATGGGGCGCACGTTGGGGCAGATCGCGACGCCGACGACGTTCCGGC  
GCGTGTACCGGGCGGCTGGCTGGTTGCGGTGGACAATGCGGCACGCGCCCTGGAGGCGCTG  
GAGTTTTCCGGTGTGCGTATGGCGGTGCCAGCGGAAATATGACGGCGGTGCACCCGCGTGGC  
TTCGAGATTACGGCGAAGCTGGCCGAGGAGTTGGGCCTTTTTGATCCGCAGTGGGTGTGG  
CATTCCGATCGCACGCCGATCACTGCGATCGCGTGGCGCTGGCAACGGCCGCTGGTGTG  
GTACGCAAAATTGCTGGTGACGTGGTGTCTTACTCACAACCGAGGTGGCGAGTTGCGG  
GAGAAATCCCCCGGCGGCAGCTCCGCGATGCCCCACAAAGCCAATCCGGCCGCTGCGATT  
GCGTGCGACGGTTACGCGCGCCGGGCACCTGGCCTTCTTGCAACGCTTTTCGACGCCCTC  
GACTGCCGTTTGACGCGCGGCACCGGCAGCTGGCACGCGGAGTGGGCAACGCTGCGCGAG  
TTGGCTGCTGTCACTCACTCAGCAGTGAGCAGGGCTGCAACCAGCATCGATGGCATCACC  
GTCAACGTTGATGTGATGGCAAGTCGCGTCAATGGACCAACCGGGCACGCCGAAGATTG  
GCGGAGCGGGCACTAGAAATTTATGGAAAAGGACGCAGT

>RXN02813-downstream  
TAATGGATC

>RXN02820-upstream  
CAACGAAACAAATGCAAGCCCCCAATCATGGGTTTCTACCAATTAAATTTCTTTCAGAA  
AATATCTCCCCACATAAAAGTTCCTTGATAGGCTCGAGAG

>RXN02820  
ATGAAAGTGACCCAAAGCACATTCCTTAAATCGGTAGCTGCGTTCACTGTCGCAGCCTTA  
ACCCTGACCATCTCTTCGTGTTCCAGCGGTGAAGACACCTCCGCAAGCTCCACGGATACT  
GAAAACCTCTCAACCAAGCAGCAGCGTCTCCCCACTTGCGCCTTGTAAGTTCCCGCC  
GACGCTTCTGCTGAAGAGGAAGTAGAAGGCACTCACACAGGTGAAGATATTTCTGTTGCC  
CCGGAAATCGGTACCGGCTACCGCGAGGGCATGACCCCTGTTCAAACCCAAGGTTATGCG  
GTGGCAACTGCAACCCCATCGCTTCTGAAGCAGCCTGCGCGGTGTTAAGAGAAGGCGGC  
ACTGCAGCTGATGCTCTTGTCACCGCGCAGTTTGTCTTGGGACTGACGGAACCGCAGTCG  
TCTGGCCTTGGTGGTGGCGGATACATTCTGTACTACGACGCCGAAGCCAATGCGGTGACA  
GCCATTGATGGCCGTGAAACAGCGCCAGTTGCTGCTGATGAAAATATCTCATTCTATGTT  
TCTGCAGAGGATCAAACGGCACCTGTTCTGATGCCCCGACGTTCCGGCAGGTCAATTGGT  
GTGCCAGGAATCGTGGCAGCCCTTGGACAGCTGCATGATTCAATCGGAAAGACCTCCTGG  
CAGGACGTGCTGACAACTCCGACGAGCTCGCAACTGATGGTTTTTCCATCAGCCCTCGC  
ATGTCAGCATCAATTGCTAACTCCGCTGAGGATCTCTCCACGATCCGGAAGCTGCCGCA  
TATTTCTTGATGAAAACGGTGATGCGAAGGCACCCGGCACACTTTTACAAAACCTGAC  
TATGCAGAAACGATTGCTCTCATCTCTGAAGGTGGCCCCGATGCGTTCTACACGGGTGAG  
ATTGCAGCAGACATCGTGGAACGCGCCACCCGTGAGGTTGACGTTTACACCATCACTG  
ATGAGCACGGCAGATTTGGCTGCCTACACTCCGGAACCTCGTGAAGCTTTGTGTGCTCCC  
TACCGCGACAAGATTGTTTGTGGCATGCCACCGTCATCATCGGGTGGCGTCACAGTGATG  
GAAACCTGGGTATCTTGAACAACCTTGATCTCGCCCAATACCCACCCACTGAGGTTGGT  
TTGGATGGCGGATTGCCAAATGCGGAAGCTGTTACCTGATTTACAGAGGCTGAGCGCCTG  
GCTTATGCTGATCGCGATGCTTACATCGGTGATCCTGCTTTCGTGGAAGTTCCAGCAGGT

GGTGTCCAACAGTGGATCAACCATGTCCACACGGGCGAACACTCCAAACTT

>RXN02839

TGTGTGGTGAATGATTATGCTGACCGCAAGTTTGATGGTCATGTTAAGCGCACGGCGAAC  
CGACCACTTCCCAGCGGCGGGTAACAGAGAAAGAGGCGCGCGCTGTTTGTCTGTCTG  
GTACTGATTTCTGTTTTTACTGGTGCTGACGCTGAATACGATGACCATTCTGTTGTCTGATT  
GCCGCGCTAGCGCTGGCGTGGGTGTACCCGTTTATGAAGCGGTATACCCATCTACCGCAA  
GTGGTGCTGGGCGCGGCGTTTGGCTGGTTCGATTCCAATGGCTTTTGCCGCTGTGAGTGAG  
TCGGTGCCATTGAGTTGCTGGTTAATGTTTCCTCGCCAATATTCTCTGGGCGGTGGCTTAC  
GACACGCAGTATGCGATGGTTGACCGCGATGATGATGTGAAGATTGGCATTAAATCCACG  
GCAATCCTGTTGGCCAATACGATAAAT

>RXN02839-downstream

TGATATTGGGATTTTGCAGATTG

>RXN02908-upstream

GCCAACGAGGGTTGGTTTACCACCTCTGATTCAGGTGAAGTCCACGACGGGATTCTCACC  
GTGACTGGTTCGCGTGGATACCCGTCATTGATTCCGGTGGA

>RXN02908

TTGAAGTTGCACCCAGAGGTACTGGAACGTGCCATCGCAGATATTAAAGGTGTCACCGCG  
GCGTGTGTTGTGGGTATTCCCGATCCCCGATTAGGCCAAGCAATTGTGGCCGCGTACTCC  
GGATCGATCAGTCCGTCTGAAGTTATTGAAGGCCTCGACGATCTACCTCGTTGGCAGCTT  
CCCAAACGGCTGAAGCATCTGGAATCTTTGCCAGCATTGGTCTTGAAAAGCTGATCGA  
CGTGCTATCGCGAAGCTGTTT

>RXN02908-downstream

TAGTCTTCATTCTTGCTGGCTGC

>RXN02913-upstream

TCCCTGACATCCAGGTTGAAGCAACGTTTGATGACGGCACCAAGCTCGTCACCGTGCACA  
ATCCCATCCGATAACCCTTGATGTTTTTAGGAGTTTTGTC

>RXN02913

ATGATCCCAGGCGAGTACATCCTGTCCAGCGAATCACTCACCGGAAATGTTGGGCGCGAG  
GCCAAAACCATCGAAATCATCAACACCGGTGATAGGCCTGTGCAGATTGGTTCGATTTTC  
CACTTCGCTGAAGTAAACCCAGCATCAGCTTTGATCGCAGTGAAGGTTACGGCTTCCGC  
CTTGATATTCCATCCGGCACCGCGGTGCGCCTCGAGCCAGGCGATGCCCGCACCGTCAAC  
CTTGTGGCATTGGCGGTGACCGCATTTGTTGCAGGTTTCCGAGATCTCGTCGATGGGCCG  
TTGGAGGACCTCAAAGTCAACGTGTGGGAGGGACGCGAAGACGGTTGGCGTCGTTCCCTCA  
GCTGCTGGTGATGCTCCACAAGAATTGCCACAGGTGGAAGCTGCTGAACGTGGCCGGA  
CTAGATGACGCCACTGATGTGGACACAAATGTGGGCACAGAAGAAGGCTTTGAAGAAGGT  
CGAAAT

>RXN02913-downstream

TAAATGAGTTTGTGAGATTTCCTG

>RXN02937-upstream

GCTACCGCGAAGAACTGTACTAGTTCTTCCATCAGCACCCGCGAGTTGTCTTTGCAAGAGT  
TCGAAACATCCAACGCATTGGTGACACCGGTGTTGTGCGG

>RXN02937

GTGATCAGCAATGGGGAAGGTCCGGTTGTTGCGCTTCGTGGCGACATTGATGCGTTGCC  
ATGGCGGAGCGATCCGGCAAAGAATACGAGCAACCGGAGTGACACAGGTGGATAACACC  
ACCGGTCAAGAACTCCGGTGGCGCATACCTGTGGCCACGATGTGCATATTTCACTACTG  
TTGGGTGCGGTGCGAGGCGTTCAATTCTCATCGGGAATTGTGGAACGGAACGTTGATGGCC  
GTTTTCCAGCCAGCGGAAGAGACGGCAGCTGGTGCGAGGATGATGGCGGATCAGGACAAC

GCGCCGGGAAATCACTCTCCAGCGTTTCGCGCCAGATATGCAGCCAACTCTTGATCGTGGT  
GTGGAAGCGCTGGTTGTAGCTGCTTCTGCGTGGCTAGTAAAA

>RXN02937-downstream  
TAATTGGCTAATGAATCCTTTTC

>RXN02944-upstream  
GGGGAGGTCCCAACAGGTGGTGGCGAAGAGGTGACCAGCGAGGTCAACAGGG

>RXN02944  
GTGAACGCTCAGAATCTTATTGATCCAGAGCATTCAATGGGTGAGGCAACTGCTGGTGTG  
AGCCAGAACCCAGTCATGGCTGCCCTGCCGAAAGTGGCACCAGCCATATTTCCATCATC  
GATTCCCTATGGCAACGCAGCATCGTTGACCACAGTGTGGAAGCTGCTTTCGGTTCCTTC  
CACTTCACCCGTGGTTTCATTTTGAATAATCAGCTGACAGATTTCTCCGCTGAACCACTT  
GATGAGGACGCGAGCCCGTGGCCAATCGTGTGAGTCAGCAAAGCGCCACGGTCTTCC  
ATGTCGCCAATGCTAGTGTTCAACGCCAGTGGCGATGGTGAAATCGCGGATCTGAATATG  
GTGCTGGGCTCCCCTGGCGGATCCTTGATTATTTCAGTACGTGGTGAAAACCCCTGGTCAAC  
ATCATCGACTGGGATATGGATCCACAGCAGGCAGTGTCTGCGCCCAACTTTGGTGCGATG  
AACCAGCCTAAGACTGGACTGGGAAGCGAGCATCCGCTGATCGCCAATGATTTCAGCAGAG  
CTTGATCTGAACTGGAAAGCAAAGGCCACGAAGTTAATGTGGGCGAGCAATCCAGTGGC  
CTATCGGCGTTGGTGAAAAACGGCGACACCATTGTCGGTGGCGCCGATCCACGTAGAGAA  
GGCGTGGTCTTGGGTGGC

>RXN02944-downstream  
TAATTAGCGCGCAGACCACGCAG

>RXN02952-upstream  
TCCAAACCGCTGTTTCTGCTCGTGGCGAATCCTGGATATTGAAGTAATTGAAATCCGAGA  
CCTGATCTTTGATCTCGCTACCTCATTCACAAGCGCCGGC

>RXN02952  
ATGAGCTCCCCAGCACTTGACGCTGCAAAACAGCGCCTTGCTGAATCCGATGGCCTGATC  
GCTGTTACCCAGTATTTACCGCGAGCTACTCCGGCATCTTCAAGATGTTCTTTGATGTC  
CTGGACCCCAAGACCATTTGTGGGTCTGCCACCATCATTGCGGCATCTGCTGGAACGGCA  
CGCCACTCATTGGTTCTCGACCACGCCATCCGACCACTGTTTACCTACTTGCGAGCAGTT  
GTCGTACCCACCGGCGTGTTCGCAGCCACGGAAGATTTCCGGCACTGAAGCTGGCGCAGAC  
ATTGAACGTGCGGTGAACCGCGCAGCTGGCGAATTAGCGACACTCATGTTGCAGGATTAC  
TCCAGTGTGAAGGCCTTGGGGGCGCAACCGCGAACCAGACGCTGACCTTTCCCTCCGT  
CGCACCACTGGCGTGACCCCGGGAGAGAACTTCAGCAGCTTTGCCGATCTTTCTCAAAGG  
ACACGACGGAACGGCTAAATTCGCGGATCTCCGTT

>RXN02952-downstream  
TAAGGCATTGAAGCATTGGAGG

>RXN02972-upstream  
ACCTACGACGGTGAAATCCTAGGCTCCCACTCAACCCAAATGGGATGCGTGCGCCTGACC  
GAACGAATCATGCGCAGCGACCCACCGACTGAAACCGAA

>RXN02972  
GTGGAAATCGCCGCGACTACGTTGCAGAACGCATCCAGGAAGTAAAAGCCATCGTCCCA  
ATTTCAAAGGCAAAAACCTTTGTGGGATGCGCAGGCACCTTCACCACAATCTCCGCCTGG  
GTGCAAGGCCTAGAAAGCTACGACCGCGACGCGATCCACCTCTCTGCACTCAACTTCGAT  
GCACTGCGAGTTGTACCGATGAGATCATTTTCAGAATCATCATCAGCGCGCCAGCAAC  
CCAGTTGTTGATCCAGGTGCGCGCCGACGTCATCGGTGGCGGATCCGTTGTTGTCCAAGCA  
GCGATCGACTTAGCCTCCAAAGAAGCCGGTGTAGACTACATCATTATTTCCGAAAAAGAC  
ATCCTCGACGGCCTCATCCTTGGCCTGGTAGAAGCCGACTCTTTGAAGAAA

>RXN02972-downstream

TAGGACCCTAGTTTTAAACCACT

>RXN02973-upstream

GTCGAGAGCTGTAAAGTCAAGGCTATATACTTCTCAAGTCGCGCCGAAATTTGTTAAATG  
ACTATAAAAGGCAGTCCTAGTCAAGGAAGAAGGTTTGACT

>RXN02973

GTGAGTGATGCAGGGAAGAAGGACTCTTCCAAGGTGGAGATCGGACTGACCGGTGCGACCC  
CTGCGCGAGTTGCCTGAGCCATCTCCTTTGGAAAAACATGGCCCAGCAACGATCATTGCC  
ATGGCGAATCAAAAAGGTGGCGTTGGTAAAACACGTCACCATCAACCTCGGAGCATGC  
CTTGACAGAGGCGGGACGTAAAGTCCTGCTCGTTGACTTGGATCCGCAAGGTGCGTTGACT  
GCTGGTTTGGGAATCCACTACGACGACGTGGATATCACCGTGTATGACCTCATGGTGGAC  
AACAATTCCACCATTGATCAGGCGATCCACCACACTGGTCTTCCTGATCTGGATGTCGTT  
CCTGCAAATATTGACTTGTCCGCTGCAGAAATTCAGCTGGTCAATGAAGTTGGTTCGTGAA  
CAAACACTTGCCAGGGCGCTGCGTCCTGTCATGAAGGACTACGACTTCATCATCCTTGAT  
TGTCAGCCATCACTTGGTCTTTTGACGGTGAACGCTTTGGCGTGCGCGCACGGGGTTATC  
ATCCCGATGGAGTGCGAGAACTTATCACTGCGCGGCCTCGCATTGCTCACAGACACCGTG  
GAAAAGTTGCCGATCGGTTGAACTTCGATCTGGAAATCCTCGGCATCTTGGTC

>RXN02974-upstream

GCAGGCATGGACACATTCCAGGTCCTGACCGGCGTCAGCGGCTACTACGATTTGGTGCGC  
GCCATTCCAGAGCAGCGCCCCACCTATATCGCCACCTCG

>RXN02974

ATGCAGGATCTCTACAGCGATCCGGGCGAGCTCAAGCCAGGTGCCCAGGGCGGTTTTTCA  
GCGCTTATCGACGGCGACACCCTGGTCATTTCCGGCGGCGATGCCGGCGCAACTCCGGTT  
GCAGCACTCCGCACTGCGTTGGATGTGGCCTGGGCGGCCACAGAGCAGTCACCGAGGTAC  
GCGCTGATTACAGAGG

>RXN02974-downstream

TAGCTGCTACTGCATTGCAGAGC

>RXN03000-upstream

CAGCGTGTTGCTGCGCCTGCAGAAAACCTACAGCGTCACCCACAAAGTCGAAATCCAAGG  
CTAACCCCTTTTTCAACTCACAGTTAGGAACTTCACCC

>RXN03000

ATGTCTCTTCCACATTCTGATGAACCTCCGCGGCCAAAAGATCATTATTTCCGGTGGCGGA  
ATTGGTGGCGCAGCAGGTGCACTTGCCTTTGCGCGGTGCCGATGTCATTTGTAC  
GAACGCGCAGCTGAGTTCAAGGAGGTGCGCGCTGGCCTCCAGATCGGTCCGCACGGCTGG  
CGAATGCTGGAATCCTGGGGTCTGCTCGACCAAATTGTCGTGGCCGGCTACCTCCCAGAA  
GACATGCAGTTCCGCGACGCTGTCAACCGCGAAACCATCCTGACCATGCGTTTCGATGAA  
GAATTCCAGCAGCACTACGGCGGTGCTACCTGGTGATTACCGCTCTGACCTGCTCAAC  
ATCCTGGTCAACCAACGCCGAAGCAGCGGGCGCAAGCTCCACAATGGCGTCCCTGGTCAAC  
GATTCCCGCACCGTCGACGGCGGTATCGAGGTGGACATCGAATCCTCCATCAACAAGGGC  
GAAGATAACAAGACTTTGCTTGTGACGCCTTCCTCGCCTTCGACGGCATCCACTCGGTC  
ATGCGCAAAAAGCTTGTCGACGACGCC

>RXN03026-upstream

GTTGGCGGCGCAGTATCGTGAGGTGCGGGACCTCGAGCGGGGAATCCCAAACCTAGCATCC  
CGAACTAGCCCCCAACAACAATTAGAAATGGAACCTAAA

>RXN03026

ATGCCTGGAAAAATTTCTCTTCTCAACGGCCCAAACCTGAACATGCTGGGCAAACGCGAG  
CCTGACATTTACGGACACGACACCTTGAAGACGTCGTCGCGCTGGCAACCGCTGAGGCT  
GCGAAACACGGCCTTGAGGTTGAGGCGCTGCAGAGCAATCACCAAGGTGAGCTAATCGAT  
GCGCTGCACAACGCTCGCGGGACCCACATCGGTTGCGTGATTAACCCCGGCGGCCTGACT

ACACTTCGGTGGCGCTTTTGGATGCTG

>RXN03026-downstream  
TGAAGGCGTCTGAGCTTCCTACC

>RXN03028-upstream  
CTAATTCCAAGCCGAGCTGAAAAAGTCTGGAAGTTTTGCCCAATAAGGGCGTTAAAGTGG  
GTGAAAGCGAATTTAGAAATAAAGAATTAAGGGGAGAGAC

>RXN03028  
ATGTTTCGAGAGGTTTACCGATCGTGCACGCCGCGTGATTGTGCTCGCGCAGGAAGAGGCG  
CGCATGCTCAACCACAATTACATCGGCACGGAGCACATTCTCCTCGGCCCTCATTCACGAG  
GGCGAGGGCGTTGCAGCCCAAGGCTTTGGAATCCATGGGAATTTCCCTGGACGCCGTCGCG  
CAGGAAGTCGAAGAGATTATCGGCCAGGGCTCCCAGCCCACCACCGGCCACATTCTTTTT  
ACTCCACGTGCCAAGAAGGTCTGGAGCTCAGCCTCCGCGAAGGCCTACAAATGGGACAC  
AAGTACATCGGTACTGAGTTCCTGCTTCTCGGTTTGATCCGTGAGGGCGAGGGCGTTGCT  
GCCCAGGTCTGGTCAAGCTTGGTGTGATCTGCCACGCGTGCGTCAGCAAGTTATTTCAG  
CTTCTCTCCGGCTACGAAGGTGGCCAGGGCGGATCCCCAGAGGGCGGCCAGGGCGCCCCCT  
ACTGGCGGTGACGCTGTTGGTGCAGGAGCTGCTCCTGGCGGTGCTCCATCTTCGGGCAGC  
CCAGGCGAGCGTTCTACCTCTTTGGTCTTGACCAGTTCGGCCGCAACCTCACCAGGCT  
GCAAAGGACGGCAAGCTGGATCCAGTTGTTGGTTCGCGATAAGGAAATCGAGCGCATCATG  
CAGGTGCTCTCCCGTCTGACCAAGAACAACCCAGTTCTTATTGGTGAGCCAGGTGTTGGT  
AAGACCGCAGTTGTTGAAGGTCTTGCACTAGACATTGTTAACGGCAAGGTTCCAGAGACC  
CTCAAGGACAAGCAGGTTTACTCCCTTGACTTAGGTTCCCTGGTTGCAGGTTCCCGTTAC  
CGCGGTGACTTCGAAGAGCGACTGAAGAAGGTCTCAAGGAGATTAACCAGCGCGGCGAC  
ATCATCCTGTTTATCGATGAGATCCACACCCTCGTGGGTGCAGGTGCAGCAGAAGGCGCA  
ATCGACGCTGCCTCCCTGCTTAAGCCAAAGCTTGCCCCGCGGTGAAGTGCAGACCATTGGT  
GCAACCACCCTGGATGAGTACCGTAAGCACATTGAAAAGGACGCAGCTCTTGAGCGTCTGT  
TTCCAGCCAGTGCAGGTTCCAGAGCCTTCGGTTGATCTCACCGTTGAGATCTTGAAGGCT  
CTGCGCGACCGCTACGAAGCTCACCACCGCGTATCCATCACCGATGGTGCTCTTACTGCA  
GCAGCTCAGCTTGCTGATCGCTACATCAACGACCGCTTCTTGCCAGATAAGGCCGTTGAC  
CTCATCGATGAGGCTGGCGCCCGCATGCGCATCAAGCGCATGACCGCACCTTCTCCCTC  
CGCGAGGTTGATGAGCGTATCGCTGATGTTGCGCGTGAGAAGGAAGCAGCGATCGATGCT  
CAGGACTTTGAGAAGGCAGCAGGTCTTCGCGATAAGGAGCGCAAGCTCGGCGAAGAGCGT  
TCAGAGAAGGAAAAGCAGTGGCGCTCCGGCGACCTCGAGGACATCGCTGAGGTTGGCGAA  
GAGCAGATCGCAGAAGTACTGGCCAAGTGGACTGGTATTCTGTCTTCAAGCTCACCGAA  
GCTGAATCTTCACGCCGTGCTCAACATGGAAGAAGAGTTGCACAAGCGCATCATCGGACAG  
GATGAAGCTGTCAAGGCTGTCTCCCGTGCGATCCGTGCTACCCGTGCAGGTCTGAAGGAT  
CCTAAGCGTCTTCCGGCTCCTTATCTTCGCTGGTCCATCCGGCGTTGGTAAGACCCGAG  
CTGTCCAAGGCTCTCGCAGGATTCTCTCGGTGACGATGATTCCCTCATCCAAATCGAC  
ATGGGTGAGTTCCACGACCGCTTACCGCGTCCCGACTTTTCGGTGCCCCCTCCGGGATAC  
GTTGGCTACGAAGAAGGTGGCCAGCTGACCGAGAAGGTTGCGCGTAAGCCATTCTCCGTT  
GTGCTTTTCGACGAAATCGAGAAGGCCACAAGGAGATCTACAACACCTTGCTGCAGGTG  
TTGGAAGATGGTCGCCTTACCGATGGTCAGGGACGCATCGTGGACTTCAAGAACACCGTC  
CTGATCTTCACTTCAACCTGGGCACCGCTGACATCTCCAAGGCTGTTGGCCTGGGCTTC  
TCCGGATCCTCCGAGACTGACAGCGATGCTCAGTACGACCGCATGAAGAACAAGGTCCAC  
GACGAGCTGAAGAAGCACTTCCGCCCTGAGTTCTTGAACCGTATTGATGAGATCGTGGTC  
TTCCACCAGCTCACCAAGGATCAGATCGTTGATGGTGCACCTTCTTATCGGTGCGGCTT  
TCCAACGCACTGGCTGAGAAGGACATGAGCATCGAACTGACTGAGAAGGCCAAGGACCTC  
CTGGCTAACCGAGGCTTCGATCCAGTTCTGGGTGCACGACCATTGCGTTCGACCATCCAG  
CGCGAAATTGAAGACCAGATGTCCGAGAAGATCCTCTTCGGTGAAATCGGCGCAGGCGAG  
ATCGTCACCGTTGACGTGGAAGGCTGGGACGGCGAGTCCAAGGACACCGACCGTGCGAAG  
TTCACCTTCACACCAGTCCAAGCCAATGCCAGAAGGTAAGTTCTCTGAGATCTCTGTC  
GAGGCTGCGGAAGCAATTCAAGATGTAGATTCTGCAGCTGACGGCGATGTCCAGAAACC  
GATTCACTTTCCGACATTGACCTTGAAACCTTGAAAAGTTTGAGGAAGATGTAGAAAAC  
GGCACCGACATTGATCAGGTGTCCGGTGACTACTACGGCACCGATGATCAGGGAGGCACT  
GCTCCAAGCAAGGAG

>RXN03028-downstream  
TAGCAACCTTTTGAAAAGGGCC



>RXN03036-upstream

TAGAAAAATCTACCCAGTAAGCATTTCAGGAACCATTTCAGAATCTTTTCTTAGCATGTCTC  
TATCAGCGTAAACGTCCGAACATGAAAGGCTAGAAAAGCC

>RXN03036

ATGGCTGAGCAGTTGCGTCAATTTGAAGGCAGGGTCCTCCCTAATCAATCCGAGGACTTG  
GAAGATCAGGGTTTGGGATTTGACCTGGGAACCGTTTTCTCCCGCAGGAAGGTTTTGGGA  
TTCATCGGTGTTGGTGGAGCAGGTGTGGCACTTGCTGCTTGTTCACCTTCTGGTTCTTCC  
GCGGCATCGAGCACCTCAAGCGCTCCAGCAGCGCAGCTGCAACCACCAAGTGCAGCAGCA  
GAGACTTTGACTGAGATGAAGTCGGAGACTGCTGGTCCGTACCCGGGCGATGGTTCGAAT  
GGTCCGGATGTGTTGGAGGTCTCCGGTGTGGAGCGCCAGGACATCACCAGTCGATTGAT  
TCTGACACCGTGGCAGAGGGCGTACCCTCTGACGTTGACTATGACCATTTTGGACATGAAC  
AACAACAATCAGCCAATGGAGGGTGTGCGGTGTACGTGTGGCACTGTGATGCGCCGGGT  
CGATATTGATGTACGACTCTGAGCTGGAAGATGAGACCTATTTACGCGGTGTGCAGATT  
ACCGATAAGTATGGCCAGGTACGTTTCGATACCATTTTCCCTGGTTGTTATGCGGGCCGT  
TGGGTGCATATTCAATTCGAGGTGTCCCGGATCGAGACAGCATCACGGATTCCACGAAC  
AACATT

>RXN03077-upstream

ACCCGATCCTTTGTTTTTCGTGGGATCACTATTAGACTCGACTCTACCGCGCTGCAGGTT  
TTCCTGATACGCCTGCGGACAAAACAGAAAGGTATTTTAC

>RXN03077

GTGATGGAAATTGGTGTGCAGGTTGCCTCATGGATGGACCGCCACCATGACGAGGTCATA  
AAGTGGCGCAGGCATTTGCACAGCCATCCTGAGCTCTCCACATGGAATACCGCACGACT  
GAGTATTTGGCCTCGGTTCTGAAAGATCACGGCATGGAACCACACCTGTTCCAGGAACC  
GGTTTGATGGTGGATATCGGACCAGAAGGGGACTCCCGCCTGGCGTTTCGCGCTGATATC  
GATGCCCTTCCGCTGCTTGAATCAACCGGCTTAGAGTTCTCTTCCACAGCCACTGGCGTT  
GCGCATGCGTGCAGCATGACGTGCACACGGTGATCGCTTTGGCACTTGCCTGTGCATG  
AACACCATCGAACTGCCCATCGGCATTTCGGGTGATTTTCCAGCCGGCAGAAAGTCATG  
ACTGGTGGCGCAACGGACGTCATTGCCCACGGTGGCCTTGATGGTGTGGATGCGATTTAC  
GCCATCCACGTTGAACCCAAATTGAAGGTCGGTTCGCTCGGTGTACGCGCTGGCGCGATT  
ACTTCTGCCTCAGATGTGATCGAAATCAGAGTCAAGGGTGAAGGAGGACATAGCGCACGT  
CCACACCTCTCCGCTGATGTTGTTTACGCCTTGAGCAAATTGGTTCGTTGATCTTCCCGGT  
TTGCTGTCCAGGCGCGTCGATCCACGCACCGGCACCGTGCTTGTTCGGCACCATCAAC  
GCCGGCTATGCGCCCAACGCGATCCCAGATTCCGGCATCGTGTGAGGCACCTTGGCTACA  
GCCGACATCTCTACCTGGCGTGACATGCGTCCGCTTATCTCTGAGCTGGTGGAAACAGGTG  
CTCGCACCCACCGGAGTCACCCATGAACGTGATCTACAATCCGGGTGTTCCACCAAGTGCTT  
AACGACGATGTGCGCACCGCTTTGTTGGCAAGCGCAGCACGCGACATGGACACACAATCT  
GTTGTCCAAGCGCCGAGTCATCCGGTGGAGAAGACTTCTCGTGGTACCTTGAACACGTC  
CCAGGATCAATGGCCCGGTTGGGTGCTGGCCGGGGCACGGACCCAAGCAAGACCTCCAT  
CAAAGTGACCTGGTTGTGGATGAGCGAGCCATCGGAGTTGGCGTCAGGCTCTTTGGCTCC  
CTTGTGCAGCAGTACAGTAGCCGATCTGAAGCTTTCTTAAATTCC

>RXN03077-downstream

TAATGGGGGTAGTGTGTAGGGCT

>RXN03088-upstream

TCATGGCACCGGGACCTGGCATCGTAGCTAAGGTTTCTTTTGATGATTTCTCCGACGTCA  
CCGGCGCGCATGAACCTCCTGAATTGGAGGCAAAGAACTA

>RXN03088

ATGGGTCAAACCCGCATCATTTCCGGCGACGCACGCGCCGCAAGATCGAAGTACCACCA  
GCAGGTACCCGCCCCACCTCTGACCGCGCACGCGAAGGTCTCTTCTCCTCACTGCAGGTG  
CGTTTCGAGATTGAGGGCCAGCGCTCTCGACATTTTGGCCGGCTCCGGCGCAGTCGGA  
TTGGAAGCTCCTCAGGGGTGCCGATGAGGTAGTTCTGGTTCGAGTCGAATCCTAAGGCC  
GTAGAGGTAATTCGACGGAATGTGGACGTCGTAAAGCATCCTCGCGTAACCGTCGCAGAG

ATGAAAGCATCCACCTACCTTGCGTCCGCACCCGATAAGTTTTTACGATGGTGCTCGCC  
GACCCGCCCTATGAGCTTGCGACGACG

>RXN03091-upstream

GCAAGGCTTATCCAATGGTTGTATCGGCGCTGGCGATCGGTGGTTTTTTTTTGAATAACG  
CTCTTGCAATATCTTTCTGAGCAGGGGAATCACCCAAGAT

>RXN03091

ATGCTGGCGAAGGACTCCTACACCATCAAATTGACTTTGGATCCAGATGTTCAAGGATGCA  
GCGCACAATGCGGTGTCTCCACGTTGATCCAACCACCCAGGTGTCGCTGAAGTTGTG  
AACGTCATTGAGCCTGGCGAGAACTCCCGCGATATTTGGCTATTACTTCTCCCGCAAC  
TACGGCCTTGACCTGGATGCTGGTGAAACGATGCTGCCTCAGGCAACGTCCCGTGTGGGT  
AATGGTGCCGGTTCCATTTTCAAGATCTTTACCGCCGCTGCAGCCATTGAGCAGGGCGCT  
GGCCTAGACACCATGTTGGATGTTCTTCTCGATATGAGGTCAAGGGCATGGGCTCCGGC  
GGTGCCGCGAACTGTCCCGCAAATACTTACTGCGTGGAAAACGCAGGATCCTACGCGCCT  
CGCATGACTCTGCAGGACGCTCTCGCGCAGTCCCCAACACTGCATTGTTGAAATGATC  
GAGCAGGTTGGCGTGGACACCCGTTGTGGATCTTTCAGTAAAGCTGGGCCTGCGAAGCTA  
CACCGA

>RXN03091-downstream

TGAAGGTTCTTCGACGGCGAAA

>RXN03092-upstream

CCGACTGTCAGCAGTAACGCACAGTCGAATAAATAAAGATTGGCTGACATTGTTGGAGTC  
TTGGGTTACGATTCCCGGGGTTATCGCTAGGCTGTTGGA

>RXN03092

GTGTCCACCACGAATTCTCTGACAAAGCTCGTTGCATCTACAGTCGCCGCTGGCGTCCTT  
GGTGCGCTCGCACTTGTGCCTTTTCGCTAGTCTTTCTGGCGTTGCGGTTGCGCGTACCAAT  
GACACGATGCAGACCAACCTTTGAGATCTGACGGATGGTCGCGGGCCGGGCGTCACGACG  
ATTACTGATTCCACTGACCAGCCGATTGCTTATATTTATGCGCAGCGGCGGTTTGGAGGTT  
GGGGGTGATCAGATTTCTACGTCGATGAAGGATGCGATCGTTTTCGATTGAGGATCGCAGG  
TTCTATGAGCATGATGGTGTGGATTTGCAGGGCTTTGGTCGTGCAATCCTGACGAACCTG  
GCTGCGGGTGGCGTGGAGCAGGGTGCTTCGACGATTAACCAGCAGTATGTGAAGAACTTC  
TTGCTGTTGGTGGAAGCTGATGATGAGGCGGAGCAGGCTGCTGCTGTGGAACCTCCATC  
CCTCGTAAGCTCCGTGAGATGAAGATGGCGTCTGATTTGGAAAAGACGTTGTGCAAGGAT  
GAGATTCTGACTCGTTATCTCAACATTGTTTCCTTTTGGTAATGGTGCTTATGGTGTGAG  
GCTGCGGCGCGGACGATTTTCGGTACGTCGGCTGCCGAGTTAACCATTCCACAGTCTGCG  
ATGCTCGCGGGCATTGTGCAGTCTTCGTCTTATCTCAATCCATACCAATCACGATGCT  
GTGTTTGAGCGTCGTAATACTGTTTGGGCGCTATGGCTGATGCTGGCGCGATTTCCCCA  
GACGAGGCTTCGGCTTTCCAGCAGGAACCTTTGGGTGTCCTGGAAACCCCGCAAGGCTTA  
TCCAATGGTTGTATCGGCGCTGGCGATCGGTGGTTTTTTTTTGCAA

>RXN03092-downstream

TAACGCTCTTGCAATATCTTTCT

>RXN03094-upstream

ATAGATATTAGAGAGTTAAATAATGGCGCTTGACCTGCAGGAAATTGAGATCAACACTGA  
TTGTGTAGGTTGGCGCCCAACAAAGAAAGGGCGTTGAAAG

>RXN03094

ATGAGTTTCAATCCAACCTACCAAAACCAATGAAGCCATGCAGGCTGCTCTTCAGCAG  
GCATCCTCGGCTGGCAACCTGATATTCGTCCAGCTCACCTGTTGGCTGCCATCTTGGAG  
CAAATGATGGCGTAGCAGCGCCAGTCTCATGGCTACTGGTGTGGATCCTAAGGAGATC  
CTCGCAGAGGCCAAGAAGTTGGTTGCTTCTTACCCCAAGGCTTCTGGCGCCAATATGGCT  
AATCCAAACTTCAACCGGGATGCCCTCAATGCGTTCACTGCAGCTCAGGAGCTTGCCGGT  
GAGTTGGGCGATGAGTACGTCTCAACCGAAGTACTTCTTGCCGGTATCGCTCGCGGAAAG  
TCTGATGCTGCGGATCTGTTGACCAACAAGGGTGCAACCTATGACGCCATCAAAGAGGCT

TTCCCTTCGGTTCGTGGATCTCAGCGTGTCACTCAGGATCCAGAGGGACAGTTCCAG  
GCTTTGGAAAAGTACTCCACTGACCTGACCAAGCTTGCTCGTGAAGGCAAGATTGATCCT  
GTTATTGGCCGTGACCAGGAAATTCGTGCGGTTCAGGTGCTTAGCCGTCTGACCAAG  
AACAACCCTGTTCTGATCGGTGAGCCAGGTGTGCGTAAACCGCCATCGTGGAAGGCCTT  
GCACGCCGATCGTTGCTGGTGACGTTCCAGAATCCCTCAAGGGCAAACTCTGATCAGT  
CTTGATCTTGTTCCATGGTTGCCGGCGCTAAGTATCGCGGTGAATTCGAGGAGCGACTG  
AAGGCTGTTCTGGATGAGATCAAGGGAGCTAACGGCGAAGTCGTTACCTTCATCGATGAG  
CTGCACACCATCGTCGGCGCTGGTGCTTCGGGTGAATCCGCCATGGATGCCGGAACATG  
ATTAAGCCACTGCTTGCCCGCGGTGAGCTGCGCTTGTTGGTGCCACCACGCTGAATGAG  
TACCGCAAGTACATCGAAAAGGACGCTGCCCTGGAGCGTAGGTTCCAGCAGGTTTATGTC  
GGTGAGCCAACGGTAGAAGATGCCATCGGTATTCTTCGTGGATTGAAGGAACGCTACGAG  
GTCCATACCGGTGTCCGCATCCAGGACTCCGCACTGGTCGCCGCGAGCTGAACTCTCAAAC  
GCATATATCACCAGCGTTTCTTCTGATAAGGCTATTGACTTAGTTGATGAGGACGCA  
TCACGCCTGCGCATGGAGATTGATTCTTCACCTCAGGAAATCGATGAGCTGGAGCGTATC  
GTCCGCCGCTCGAGATCGAAGAGATGGCGCTGTCCAAGGAATCCGATGCAGCTTCCAAG  
GAACGTCTAGAAAAGCTGCGCTCGGAACCTGCTGATGAACGCGAAAAGCTCTCTGAGTTG  
AAGGCTCGTTGGCAGAATGAGAAAAGCTGCTATTGACGATGTCCGGGAGATGAAAGAAGAG  
CTGGAAGCGCTGCGTTCTGAGTCGGATATTGCAAACGTCACGGCAATTATTGTCGTGTC  
GCAAAGCTTCGCTACGGCCGAATCCCTGAGCTGGAAAAGCAGATCGAGGATGCAGAAATCC  
AAGGTCGAGGTCAATGAAAAAGCCATGCTCACTGAGGAGGTACGCCAGACACGATCGCC  
GATGTGGTTTCCGCATGGACGGGCATTCTGTCAGGCAAGATGATGCAGGGTGAGACCGAG  
AAGCTGCTCAACATGGAGCGGTCTTGGGCAACCGTGTGGTCGGTCAGCTAGAAAGCGGT  
AACTGCAGTGTC

>RXN03094-downstream  
TGACGCGGTGCGTCGTTACGCG

>RXN03128  
AACGGACTCGCCATTCCCGACATTGGATTGGTGATTCCAAACCCACCCGATGAAACC  
CGAAACTCCGTTAACGCTGCTCTTGAAGCCGGCTATCGCCACATCGACACCGCCGCGCA  
TACGGCAATGAACGTGAAGTCGGTGAAGCAATCGCAGCATCCGGCATTGGCCGCGACGAG  
ATCACCATCGAAACCAAAATCTGGGTGACCGACTACGGCTTCGAGGAAACTCTCCACGCA  
TTCGACAAGGCCACAGGCAAGCTTGGTGTCGATACACTGGACATTTTGATCTTGACCAG  
GCAGTGCCAAGCAGCTTTGATCGCACCATCGCCGCTACAAGGCGCTAGAGAAGCTGCTT  
TTCGACGGCGCGGTGCGGGCAATCGGAGTCAGTAATTTTCATGCCAGAGCACCTGGACAAA  
CTCCTTTTGGAAACCTCCATTGTCCCAGCTCTGAACCAAATCGAATGCCACCCCTACTTC  
CAGCAGCGTGACGTGCTTGCCCGCAATGAGCAGCTTGGCATTTTGACTCAGGCGTGGTCA  
CCAATCGGTGGCATCACCTTCTACCGCGACGGACAGCTTCCAAGCACTCTAGAAAATGAG  
GTCATCGCTGGAATCGCCGAGAAGTTGGCAAAACACCAGCTCAAGTAATGCTGCGCTGG  
CACCTACAGCGTAGACGTCACGCAATTCCAAAGTCTGTGACCCATCACGCATTGTGGAA  
AACTTTGAGATCTTTGATTTGCAACTCTCCGATGAGCAACTACAGCAAAATCGATGCCCTC  
AACACCGATCTGCGCGGTGGCCCAGAACAGAGAACATCACCATGGAAAACCTACTACCGA  
GAAATCCCAGAAGCC

>RXN03128-downstream  
TAAAGGCCCTTAGAGGCGAATGT

>RXN03131-upstream  
AACGCGCTCGTGAAAGATTACCTGAAAAACCAAGCCCTCCAGCGTCCGCTGCTCGGCTAA  
ACCAGTTGGCTAAACCAAAACGTATTTAAGGAGAAACACC

>RXN03131  
ATGACCACTTCTGTACCTGCATCCACCAAAGCTTTATCTGTGGCTGGCGAAAACCCAGGC  
CTGCGCATCGGCACCGCACCTGACTCGTGGGGCGTGTGGTTCCAGAGGATCCAAAGCAG  
ATCCCTTGGGAGCGTTTTCTCTACGAGGTCTGAAAGCTGGCTACACCTGGATCGAGCTT  
GGCCCATACGGCTACCTGCCAACCAGTGCCAACCGCTTGAAGATGAACTGGGCAAGCGC  
GGCTGAAGCTGTCCGCTGGCACCGAGTTACCC

>RXN03133-upstream

GGCGTCAAGCACGCACTCCACCACATCGATCTTCGCCCCGCCCTCGAATGGGACATCATG  
GGATTTCCCGAATCCCCGACACGCTGCCCCATTTTGCTCA

>RXN03133

GTGACCTGCGCGACCCCCCTTACGCCACCACTGCTGTGCCACCTCAATCCACGCCACGCT  
CCGCTCACCAGATCCACACATTGACGCTTCCAGGCGCCACCGCGGTCCCTTCCACGCCACT  
CCCAGCTACGCAGGCTTTACCCCTCATTTACCGACGACACCGCCCGCATGCTGGGCAAC  
CTAGCCAAAATTGGCGCGGTTGCCACCTGGGAAAAGACGCTTGTCGACGCCGCAAGCTGG  
GCCGAATCCCCACCCACCACTCATCGTCGGGGATACCCCGCCCTCGACTGTCACGCCG  
GACAACGCCTGGTACCAGTTTCGCGTCGGCAAGCATCTTGGTCGCGATGCGTTTCGCGGAA  
ATCGTCATGTGCCTTGGCCACGTGTTTGGCCATCATGTCCCCCAGGTATGGTCGACAACC  
TGCGCATCTCAGGACGCTGATTCCACCACGATGCTCATTTGAAGCCGAGACCGCGGGGCGA  
TTGGCCATCGCTCGCGTCGGCGGCCCGACCCGTCGAGGTGGTTCCCTTCTTCGGCGATGCC  
CTTCTCAAAGAGGGGACGCCACTTCTGCTGGTTTCCGACTAGATGTTGTTCTACACGCC  
GCCTCAGAAATTGAGGATCTGCTGCGCGGTGACACCACAGCCGTTGTCAGCGGCGCTTG  
TCTGTGGAGGATCGCCGAGGTTAC

>RXN03133-downstream

TAACAAATAGGCCCAACAAAGAG

>RXN03145-upstream

AGAGGTGTTTAAATTCCCGCTCTGCCCCAGATTTAAACTATGATGAGGGATAGCTTCT  
CAATTTTCAGGTTTTCCAAATGAAAGAGGTTACGCAC

>RXN03145

ATGCCTACTTATACTTGTGGTTCGCAAAGAATTCGCATTTCTAGGGAAGCCAAGCAACGC  
ATCGCTGAGGCAATCACCGATGCCACCATGAATTAGCGCATGCTCCCAAGTATTTGGTG  
CAGGTGATTTTCAATGAGGTGGAGCCTGATTCTTATTTTCATTGCGGCGCAGTCGGCGTCG  
GAAAACCACATTTGGGTCCAAGCAACGATTTCGTTTCGGGGCGTACAGAGAAGCAAAAAGAG  
GAACTTCTGCTTCGGCTGACACAAGAGATCGCGCTGATTCTTGGGATCCCCAATGAAGAA  
GTATGGGTATATATACCGGAGATTCTTGGTTCCAATATGACGGAATATGGCCGTCTCCTC  
ATGGAACCTGGCGAAGAGGAGAAGTGGTTTAATTCGCTTCCCGAAGGCCTGCGGGAAAGG  
TTGACCGAGCTAGAAGGATCGTCAGAA

>RXN03145-downstream

TAGCTCTCGAATAGGCCATTTCT

>RXN03178

CCCACCACCGTGGTCACGGGCACGATGGAAGCCGCCAACATCGAGGGCTCCCGCGTGGGT  
GTCGGCGAGGCCGGCCAGTATACCGTTGATCAGCTGCTGCACGGTCTTCTTTTAGCCAGC  
GGTAACGATGCGGCGTATATGTTGGCTCAGGAACCTGGTGGGGATCAAGCAACCCTGGAG  
AAAGTAAACGCGCTGGCCAAGGAGTTGGGCACTCAAGACACCTTCGTTGCCACTTATTCC  
GGTTTGGATGCGCCGGGAATGTCGACCTCCGCATACGACATGTCATTGATTTATCAGCAT  
GCGTGGCAGAACCCGGTTTTTCGAGTCGATTATCTCCACCGATCACATTGATTTCCCTGGT  
TGGGGCGACAATGAGGGTTTCCAAGTCTGGAACGATAACGCCTTGTTTCATGAACGATCCT  
GATGGCATCGGCGGCAAGACCGGCTACACCGACGACGCGAACCACACCTTTGTCGGCGGT  
CTCGATCGGGGTGGTCGCCGCCTCGCCGCCGTACTCTTGGATTCCACCGTCAGCGACATT  
CGTCCGTGGGAACAAGCACGATTGCTTATCGACGCCTCCCTCCCCATCACGCCGGGGTCC  
GGCGTGGGCCAGCTGGGCTCCGGCAGCGCGAACGATGTGGCACCGGCGACCCAGAAATTA  
CCAGAACCCACCGACAACCTGACTTCAGGTGAGGGTGGGTGCGAGAACACGCTTCTTAAG  
CTCGTGGTGCCCATCGGAATCATCGTGCTGTTGCTAATCGCCGCACTAGCGTGGACATTC  
AGATCTCCCAAGAAAAAGAAC

>RXN03178-downstream

TAGGTGTTCTTCTTCACGACCTC

>RXN02021-upstream

TTGGGTCGCCGAGGAGATCTAATCCTGGTTTGGAGTTCAGAGTTCACAGGTTTAAGCCTAC  
AAACCTTAGTTAAAACATGATGGAAGCGGTCGATTAAAAA

>RXN02021

ATGAGTGAAAACATTTCGCGGAGCCCAAGCAGTTGGAATCGCAAATATCGCCATGGACGGG  
ACCATCCTGGACACGTGGTACCCAGAACCCCAAATTTTCAACCCGGATCAGTGGGCTGAA  
CGCTACCCATTGGAAGTGGGCACACACGCCTCGGAGCAAACGAACTCACCCACGGATG  
CTGCAGTTGGTAAACTGGACCAAGATCGCCTCGTTCGAACAGGTAGCAGTCCGCACCGTT  
ATCCCGATCTGTCTCAACCTCCAGTAGACGCGCACGATGTTTACCTGCGCCTCCACCTG  
CTTTCCACCGGCTGGTCCGCCCCACGAAATGCACATGCAAAACACCTTGGAGCTGCTG  
TCCGACGTGGTGTGGACAAACAAGGGCCCTTGCCCTCCTGAAAACCTTTGAGTGGGTGCGT  
GGTGTCTGCGGTCCCGCGGACTCATCCACGTCTACTGTGTGGACCGTCTTCCCCGCATG  
GTCGACTATGTGGTTCCCCCTGGAGTCCGCATCTCCGAAGCAGAACGCGTGCCTAGGT  
GCATACCTTGCTCCGGGTACCTCTGTGCTGCGTGAAGGTTTCGTGTCTTTCAACTCCGGC  
ACCTTGGGTGCCGCAAAGGTGGAAGGCCGCTGAGTTCGGGTGTGGTCATCGGTGAAGGT  
TCCGAGATTGGACTGTCTTCTACTATTAGTCCCGAGAGATGAACAGCGCCGCCGTTTG  
CCGTTGAGCATCGGCCAAAACCTGCAACTTTGGTGTGAGTCCGGAATCATCGGAGTCAGT  
CTGGGAGACAATTGCGACATCGGAAATAACATTGTCTTGGATGGAGATACCCCCATTGG  
TTCGAGCCGATGAGGAGTTACGCACTATCGACTCCATCGAAGGCCAAGCAAATTGGTCA  
ATCAAGCGTGAATCCGGCTTCCATGAGCCAGTTGCCCGCCTCAAAGCT

>RXN02021-downstream

TGACCCATTTTCATAACCAAGTGC

RXC00110 - 5'-Region

ATATCGAATGTCCAGTCACGCTAACTTCACCCAAGATGAGATTTCTGTGGCACGATTGGGAATAACGAA  
CGTAATTTTAAACACTGGAGGAGCTTCCAC

RXC00110 - coding Region

GTGAGCAACAAAGACGGCCTTTTTACTGACGGTAACAGCACGTTTGCACCTAAGGTGGATTCAATTCCC  
CTCAGCGATGTGGATAACAGCGTTAGCGGTGAAGCCTCCATCGGCACGCTGATCTCCAACGCAACCTCC  
CAAATGTCCAGCCTTTTCCGCGCAGAAGTTGAGCTGGCGAAGACTGAACTCGCAGGCGAAGCCAAGAAA  
GCTGCCATCGGGCGGCGGCATTACAGCGTTGCTGGCGTAATCGCACTGTACAGCTCCTTCTTCTTTTC  
TTCTTCGTGCGAGCACTGCTGAGCGAGTGGATTAAGCCTTGGGCAGCATTCTCATCGTGTTCCTCTTC  
ATGCTGGTCATCGCCGAGCTCTCGCACTGTTCCGGTGGCGCAAGGTGAAGAAGATGGGCGCTCCGAAG  
AACACCATCCAATCGGTCAACCAACTGAAGAACCCTGGTCCCAGGTGAGGCATCCGAGAAGCTGGAGAAG  
GCCAACAAGCGTGGCCTCTACACCTCCGCGTCTTCCACAGCCCCGGCGCCATCACTGGCGACCAC

RXC00110 - 3'-Region

TAAAAAAGGAGACTTCGATGGCC

RXC01971 - 5'-Region

AGGTCTTGTTTATTTTCGGCTACTGATTCACTAGCTGCGCTCCGATAGGATTCTTAGTTTTTCAGTTCAGT  
ATCTTTGAGCCACGGCTAGAATGTGAATCCT

RXC01971 - coding Region

ATGTCTAAGAAGAAGCCTCGCCCCATTCCGGTTCCTGCCCAATTTATCCCTGGTCTCATTGATGCGCAT  
ACACATTTGGCATCGTGTGGAGGAGATCTTGACGGGTGGTGGAAAGGGCCAAGGAGGCGGGCGTCGAA  
AAGCTTTGTACCGTCGGTGATGGTTTGGCTGAGGCCGAGCTTGCCTGGAGGCCGCGCAACAGTTTGGC  
AATGTGTTTGTGCTGCGTGTGCGATTATCCGACGAAGGCTGATCAGTTGGATGGGGCTGCGCGTGC  
CTGACGCAGATGGCGGCGGATCCGAATTGTGTGGCCATTGGTGAGACTGGTTTGGATTCTGATTGGATC  
AAGCACGATCCAGAGGACACGGCGGCGTTGGATGTGCAAGAGGAGGCGCTGCGCTGGCATATTGATTG  
GCAATTAGTGCGGATAAGCCGTTGATGATTCACAATCGTGAGGCGGATGCTGATTGATGCGAGTGTG  
GCGGATGCTCCACCTCCAAAAGATACGATTCTGCATTGTTTTCTTCGCCGTTGGACGTGGCGAAGGAA  
GCGTTGGATCGTGGATATGTGTGAGTTTTCGCGGCAATGTGACGTTTAAGCGTAATGAGGAGTTGCGG  
GAGGCTGCTCGTATTGCGCGGATTTCCAGATTTTGATTGAAACCGATGCGCCGTATATGACGCCGAG  
CCGTTTCGGGGGAGTAGGAATGAGCCGCTGTTGATTGGTCATACGGCGCTATGCATTGCGGAGGTTCCG  
GGGATGGCTGTGGAGGATGTTGCGGCGGCTTTGAATGAGAATTTTGATCGCGTTTATGGGGTCACAAAT  
CTA

RXC01971 - 3'-Region  
TAACGTGAGGTAGCTCACAGTCA

RXS00004 - 5'-Region  
TTGCACTGTCATGACTGTATCCCGCGAAGAAGTGTCCCTGCCGAGCCGAACCTCTGAACAATGCCTTCCG  
GAAGTATTTTCCAATTCCCGATGTAGGGTCA

RXS00004 - coding Region  
GTGCTGACTCAATTGATTGAATCATCGATTTTCGACAACGTTGCGAGCAGGGAGTCCTCTGAATTTCTC  
GGCCATGCTGCCATCGATCTACTTGCTGGCCTTGCTCTATGAAAAAGCCACTCCCTATGCTCCAGATGAA  
GCACTTAGAGTGGCAGTTTATGGCTATATTCCGGGAGAACCTTGGATCCTCACAACCTTACGGTCGCAGCT  
GTAGCCGGGGCGCATAGAATCGCGGTTTCGTACGTTGCATCGATTATTTGAAGGCGAAGCATACGGAGTA  
GCGGAATTAATCCGACACCTCCGATTAGAGGCAGTATATGAAGACCTTCGGGATCCTCGCCTCCAGAAC  
CTGACCATTTTGGCTATCGGCATGCGCCACGGCATTTCAGCCAAGCTCATTTAACAAGACTGTTTCGC  
GCTAAATATGGGGTACCGCCGGCAGAGTTTCGCCGAGGGTATATTAATAGCGCTGCT

RXS00004 - 3'-Region  
TGAGGGCACCGCAAGCGTGGCGC

RXS00156 - 5'-Region  
ACCGAGAGCGTGGTACGCCTCATTTAGTTTCCTCCTATGAATCTTGATGTGGTTCATGCGTTTTTATGC  
AATATCAACCAAAAGTTGGTACGATCCTCAT

RXS00156 - coding Region  
ATGAATGAACGCACATCGGATGCATTTGACGCCCTCCTTGCTCTCCTTCGGTGGTCCCGAAGGGCAC  
GAGGAGGTTTCGTCCGTTTTTGGAGAATGTCACCTCACGGAAGGGGGATTCCGCCGGAACGCTAGATGAA  
GTGGCGGTTTCATTACCACTTCGGTGGTATCAGCCCCATCAATGCGCTGAACAGGGAAATTATCGCC  
AATGTGGAAGAAAGATTGGCGTCTCGCGATCACAAGCTGCCTGTTTATTTTGGTAACCGCAACTGGAAG  
CCGTTTTGATAATGAGGCCGCTGAACAAATGGCTGATGACGGCGTGAAAAACGCGCTGGTGTGGCAACT  
TCCGCTTGGGGTGGCTACTCCGGTTGTCGGCAGTACCAGGAAGATATTAGGGCATGATCAAGCACCTG  
GAGTCTCAGGGGCAGTCGATCACGTTACCAAGCTGCGTCAGTTCTACGATCACCTCGTTTTGTCTCC  
ACCATGGCTCAATTGGTTCAGGATTCCTACGCGAAGCTTCCCGATGAGCTGCGAGATGAGGCGCGTCTG  
GTCTTCACCGCGCACTCCATTCCACTGACTGCGGACAATGCTGCGGGAACCCCTGAGGATGGCTCCTTG  
TATTCCACACAGGTCAAGGAAGCGTCAGCACTGATTGCTGAGGCTGTTGGTGTGTGATTTTGATGTG  
GTGTGGCAGTCCCGCTCGGGTAGCCCGCACACTCCGTGGCTGGAGCCTGACATCGTGGATCACGCAGTG  
GAGCTCAACGAGAAGGGTCAAAAAGCGCTCGTTGTCTGCCCTGTAGGCTTTATTTCTGATCATATGGAA  
GTCATTTGGGATCTTGATTCCGAGCTGATGGAAGAAGCCGAGAAGCGCAACATGGTGGTTCGAGCGTGTC  
GCTACCGTTGGCCCCACCGATGAATTCGCAGCCCTTGTGGTTGATCTCATCGAGGAGGCAGAGCTCAAG  
CGCGTTATCGAGCGCCTTGGAAAGCTGCCAGCACGCGGAAGTTCCGTCAACGGCGCACCGTGTGGCGAC  
GGCTGCTGTGGTACCGCAAGCATAAACCGCGCGGGTGAACCCCAACGCTCGCTCAGCGGCGCCAGCT  
GCCAAC

RXS00156 - 3'-Region  
TAGGAGTGATAGTCCCTCGCAAA

RXS00166 - 5'-Region  
GGCGTTTAGCGATCTTCAACATCGAGCAACCAGCGCCAGCGCTTTTACCCAAGGCAGCACGACTTATCA  
CGATGTCCGACCTGGATATCCGGCTGAGGCC

RXS00166 - coding Region  
GTGGAGTTAGCCGTGGGTTTGGCCGAGTCTTGATGTGCGGTGCAGGTACCGGAAAACTAACCAGTGAG  
CTAACAGCTGATCAGGTCCTAGCCCTTGATCCAAGCATGGACATGTTGCGGGTGTTTCGCTCCGCGCTT  
CCGGCGGTTCCCTGCTGGCAAGCGACAGCAGAACACACAGGAATACGTGACAACGCGGTTGATCTGATT  
ACGTGCGCACAAACGTGGCATTGGGTTGACGTGACGGCTGCCTCAGCGGAATTTGATCGGGTGATTGCA  
CCTGAGGGTGCAGTCTGCTCGTGTGAATAACCTGGACACCTCCATCGCGTGGGTACACCGACTCAGT  
CGCATTATGCATGCCGGCGATGTACTCAAGCCGGGATTACCCCAAGAAACCGCAGCTCCCTGGATAATT  
GATCGAGAAATTCGCACCACGTGGAATCAGCACCTCACCCCTGAAGAAATCATCCAGCTCGCTCACACG  
AGGTCCTACTGGTTAAACGCGTCAGAGAAAATCAAAGAGCGTGTTGATCAGAACCTTCAGTGGTATCTC  
TACGAGCATTTGGGTTTTCAGTCCCGACAATCCAGTGGAACCTTCCTATCGCTGTGATGCATTTTTACTT  
TCACGTTCCGGTACCCTGGCAGGCAGATCTTCCAATCTT

RXS00166 - 3'-Region  
TAGGAGCCCTCGCCATGTACCTG

RXS00197 - 5'-Region  
GTCGATGATATTTTGGCAACCGAATCTGAGGCACGCGCGCTGCGAATGCTTTGATCAACCGGTTGGCA  
ACCAACTTGTAAGCTAAGGAGCTTCCGCCTC

RXS00197 - coding Region  
GTGGCAGCCTATCTTCTTGGTGTCGTATTATTTTCTCGGCATCGCAGTAACCATCGCGCTTCACGAG  
TGGGGGCACTTCATCACAGCGCGCATTTTCGGAATGAAAGTGCGGCGTTCTTCATCGGTTTCGGCCCG  
ACGGTGTTTGCCAAAAGACGCGGCGAAACCGTGTACGGCCTTAAAGCGATTCCGGTTCGGCGGTTTTGT  
GACATCGCGGGGATGACTGCCCAAGATGAACCTGATCCGGAAGACCTGCCGCGCGCCATGTATCTAAAG  
CCCTGGTGCGAGCGCATAATTGTGCTTTTCGGCGGCGTGATCATGAATCTGATCGTTCGGCTTTTTGGTG  
CTTTACGGCGTGCGGTGAGCTCCGGAATCCCGAATCCGGATGTGGATACCACCGCGACAGTCGACACC  
GTTCACTGCGTGCCGGAACCCAAATTTCCGCAACTGAACGTCTCTCTGCGTAGGTTTCAGGCCCAGCG  
GGCGACGCCGCGATTGAGCACGGCGATAAGATTTTGGCCGTCAACGGCCAAGAGATGGCAAGCTTCACC  
GCCATCCGCGATGCGATCCTCGAGCTCCCAGGCGAAACGGCAACGCTGACGATTGAACGGGAGGGAACG  
CTTTTCGACGTGACCTCCAGGTTGCCTCTGTACCCCGTCTCGCTCTGACGGTTTCAGAAATTACCGTC  
GGCGCGGTGGGCATGTGAGCCTTCCACCGACCGATGTGTACAAAAAATACGGCCCAATCGAGGGTGTG  
GGAGCAACTGCACGTTTACCGGCGACATGATCAGCGCCACGTGGGATGGCCTCAAAGCCTTCCCGGCG  
AAAATCCCAGGGGTCGTGCGATCCATCTTCGGTGAGAGATGTAGAAAGCCCGGAGTGTGAGTG  
GGCGCGGTGACGATCGCGCGGCAATTTGTGCAACGTTCCATGTGGGACATGTTTCATGATGATGCTGGCC  
AGCCTGAACCTTCTTCTCGCGCTGTTTAACTCGTGCCGCTGCCACCACTTGATGGCGGACACATTGCC  
GTGGTGATCTATGAAAAAATCCGCGACTTCTTCCGCAAACTGCGCGGAAAACAGCGGGCGGCGCCAGCG  
GATTACACCAAACTAATGCCCGTACCGTAGCTGTGCGAGCCTTGCTGATGACAGTGGGAGGCCTGGTC  
ATTGTCGCGGATGTGGTCAATCCCATCCGACTCTTTGGC

RXS00197 - 3'-Region  
TAACGATACGGAATTGAACTGCC

RXS00288 - 5'-Region  
GGCGTGCTAAAAAGCACGTCAAATACAGAATCGGCAGATTACATCGCTGAGCAGAGAAAACACGGGCA  
TGAAACGTACCCAAGGGCTAACATCGGGGGC

RXS00288 - coding Region  
ATGAGCGCGCAAAATGGATACCCCTGATCCCACTATGTCTGCTGTTGCAATGTTAGATTCCATCCCTTCT  
GATCAACCAGATTTCTGATCGATGTAGAAGTAGATCGACCAACTCCCGGACCACATGATCTGCTAGTC  
CACATTGAGGCGGTCTCAATTAACCTGTTGATACCAAGGTACGCATGCGGGCCGGGAAGCAAAAGCAT  
CCTAAAATTTTAGGTTTTGATGCTGCAGGTGAGGTGGTGGCTGTTGGATCGCAGGTCACGCTCTTGAAT  
GTTGGTGACAAAGTGTTCTACGCAGGATCCAATCAGCGTCCAGGAAGTAACGCAGAGTACCAGGTGGTG  
GATGAACGGCTGGTGGGTACGCACCACAAAGCTTGGGGGCACACGACGCCGCTGCTCTCCCACTTGTC  
GCGCTCACTGCATGGGAGTCACTTTTTGACCGATTGGGAGTAACCTCAGTCAACTACTGGAACACTGTTG  
GTCTTGGGCGGTTTCAGGAGGTGTGCCTTCAGCTCTTATTCAACTTGCTCGAGCTCTCACTGGTCTGAAA  
GTAGTGGCAACAGCTTCTCGCCCTGAATCACAAGAATGGGTGACAAAGCTCGGTGCTCATGAGGTGATT  
GATCACTCCAAGGATTTGAGTGAGCAAATCTCCGACGTGGATTTTGTTCAGCTCGTGGACTACTGGG  
CGTGAAGTAGAGCTCGCCACGTTGATGAAACCCAGTCCACCTAGTGCTCATCGATGATCCAGTGGAT  
CCCAATTTGGGCGCTTTTAAGCAAAAAGCGATCGCTTTGCACTGGGAGTTTCATGTTTACCCGCGCTATG  
TTCAACACTCCTGATATGGGTGAACAAGGGAAAATTCTGAATAAGATCGCCGACATGGTTGATCGGGGT  
CAGTTTGAGTCCGTGACAGCAACGGTGCTGGATGGGCTCAACGCTGCAAACATCATGGAGGGGCACCGG  
CTCGTTGAGCAGGGTAAACCTCAGGAAAAATTGTTGTGAGGGTA

RXS00288 - 3'-Region  
TAAAGAGGACTTGAAAAATGCAC

RXS00624 - 5'-Region  
TCCATGACGTTTTGAATGGAAAATCTCCATTTGTGGAGTTAGAAGAAGACCACTAGTTTTCAACAGGAC  
GACAACGGCCGACATGCGACAATACAATGC

RXS00624 - coding Region  
ATGTCCGGCCGTCTTCTGTTTTCAGTTTCTAGTATTTTCGACCAGACCCGATCGGCGGCTGACAGGCTC  
ATTCAGACCTGCGAGCCGACGGCATCGAGGTCTCATTACTGTGCGACCCCGCATCGATGGGGACTGG

CGTCTCGCCAAAGACAAAGGGACCCCTCGCGTGGATGGAACAACAACGCGAACGCGGCCACGAACTCATC  
CTCAACGGTTTTGACCAAGCAGTTCAGGGACGTCGCTCAGAATTCGCCAACCTTGAACGGCACGAAGCA  
CGTCTTCGCCTTACCGGTGCCATTAGGCAAATGCAGAAAATTGGCTTCGAATTCCAAATCTTTGCCCA  
CCTCGTTGGAGAATGTGAGAAGGCACCTTCGCGGTACTCCCAGAATTTGATTTCAACGTCGCCGCCCTCG  
ACCAGGGGATTACATAACCTCGACACCGGCGAATTCCTGGCGTGTAGAAACCTCTCCGTGGGTGAAGGT  
TTTGGTGTGCAAAATGGTGGCGCAAGAATGTCATCAAGGCTGTCACTCGTGGAGCGGAAAAAGGAAAT  
ACAGTGCCTTGTCCGCATCGGCGCGAAATCTCACCACCCCTAAAGTCGCAGCTGACTTCCGGGAAGCT  
GCATTAGCTGCCTTGGATTGGGTGCTCAGGTGCAAACCTATTCTCAGGCGGCCGACAACCTGGCC

RXS00624 - 3'-Region  
TAGTTGGGGAGGTTCCGGGACACC

RXS00949 - 5'-Region  
GCTCAAGGATCCTTCTGGGGCAAACCAAGCAGCCCTCGCACTAGGTGCGGAACCCAGGTATGTTACCA  
ATACGACTACGTACTTTAAAGGAGAGTTGAC

RXS00949 - coding Region  
ATGAAGGTTTTTCATCATCGGCGCTGCGGGTGGCATCGGCAATCGACTTTCCAGCCTGCTTCACGCCAGG  
GGAGATGCAGTTAGCGGCATGCACCGCAATCTTGAGCAGGCCTCAAAAATCACAGACACTGGGGCAACT  
GCCGTACTCGGGGATCTCATCCACAACAGCAGGAGGAGCTTGCGGAGCTTTTCCGCGGTACCGATGCC  
ATCGTATTTTTCTGCAGGCGCCACGGAACAGGGCAAGAAAATACCACGCTTATCGACGCGCGCGGCTC  
CGTAAAGCCGCGGACGCTGCCAGCGCGGCCAACGTTTTCACGCTTCATCTTGGTCTCTGCGTTTCCGAA  
TCCTCCCGCGGGGAGAACACCACCGAGAATTTGAGCACTATATGAAGGTGAAGAAGTCCGCCGATGTC  
TACCTCAGTCACACTGACCTAGACTGGGTATTGTCCGACCAGGCGTGTCTCAAGATGAGGCAGGGGAT  
GGTTTAGTCACTGCTGGCTTAGCGATTAATTACGGCAATGTTGCTCGCGATAATGTCGACGCTTCATT  
GATGAAGCTCTGCATCAACCGCAGTTGTCAAAGATCATTGTTGAACCTACCGACGGTTCAACTCCGGTG  
CGGAAGCCGTAGAACGCCTCATCAAG

RXS00949 - 3'-Region  
TAAAGACGAAAAGAGGGAGAATG

RXS01000 - 5'-Region  
CTTTCTATGCCTACGCGGATGTTTCCGTGATCATTCTGGAAATCCTCATCGTGGTGATTGTCATTGAAG  
TAATCTCCAACGCACTTCGAAAGAGGCTGGT

RXS01000 - coding Region  
ATGAGCACCTTAACCTCTCACCACAGTACCGGCCCCAGCTCTCCCCGGCGCGCCCCAACAACTG  
GCGCGCAATATCGTTGCAATTGTCGCTGCGCTGATTGTCCTTATAGCTACCGGCACGCTCAAGATCGAG  
TGGAATGAGCTTCCGCAGATGCCCCGCGCAGGTGTGGCATTACTTAGAGCTGATGTTAGCGATCCCGAT  
TGGTTCGAAGTTTGGCCGCGCGCTCCAGGAAATGTGGCGTTCCATCGCCATGGCGTGGTTGGGTGCCATT  
TTATGCGTGGTGGTCTCTGTCCCTCTGGGAATGTTGGCTGCCCCGCGGGGTGGGACCTTATTGGCTGCGT  
ACCGTTTTACGGTTTCGTGTTTCGCGGTGATTTCGTGCGTTCCCCGAAGTGGTTATCGCAATTATTTTGCTA  
ACTGTCACCGGCCTAACTCCTTTTACTGGTGCCTCGCATTTGGGTATCTCCGGTATTGGACAACAGGCA  
AAGTGGACCTATGAAGCCATTGAGTCCACTCCCACCGGCCGTCAGAGGCAGTGGTGCAGCGGGTGA  
ACTACGCCGGAGGTTCTGCGGTGGGCGTTGTGGCCACAGGTTGCGCCATCCATTGCATCTTTGCCCTG  
TACCGCTTTGAGATCAACATCCGTACCTCTGCGGTATTGGGCATCGTTGGTGCAGGTGGTATCGGTAGT  
ATGCTTGCCAATTACACCAACTACAGGCAGTGGGACACCGTGGGCATGCTGCTCATCGTCTGGTTGTC  
GCAACGATGATCGTCGATCTCATCTCCGGCACCATCCGCCGCGCATCATGAAGGGGGCTAGTGACCGT  
GTCGTGGCACCAAGCAAC

RXS01000 - 3'-Region  
TGACGCTCCACCAAGCATCCGCA

RXS01002 - 5'-Region  
GACTGCTGATACCGCACAGGATGAAATCACTCGTTACGGCGAGATCCTGAAGAAGTTCTCCAACATAAT  
TCCCTGTTTCCAATACTCAAGGTGTGCGCAT

RXS01002 - coding Region  
ATGAATTCTGATGCTTCGGCTACCACCAACTCCTGGGCTATCAACTTCGACCATGTGTGGTGACGTAT  
CCCAATGGGACGAAAGCCCTCGATGATGTTTCCCTCACCATCAATCCCGGTGAGATGGTTGCCATCGTG  
GGTCTGTCAGGATCGGGTAAATCCACGCTGATTCGCACGATCAACGGTCTTGTCCGCGCTACGGAAGGC



ACCGTGACGGTGGGGCCGCATCAGATCAACACCTTGAAGGGGAAAGCACTGCGTGATGCCCCGTGGGCAG  
 ATCGGCATGATTTTCCAGGGGTTCAACCTGTGCGGAACGCAGCAGTGTGTTCCAGAATGTTTTGGTGGGC  
 CGCTTCGCGCACACAGCGTGGTGGCGTAACCTCCTCGGGTTTCCACGGAGCACGACAAGCAGATTGCT  
 TTTCACGCGTTGGAGTCCGTGGGCATTTTGCACAAAGTGTGGACCCGAGCTGGTGCTTTGTGGGTGGA  
 CAGAAACAGCGCGTTGCTATTGCGCGCGCCTTATCGCAAGATCCGTCTGTCATGCTGGCAGATGAGCCT  
 GTGGCAAGCCTTGATCCGCCAACCGCGCATTCCTGTATGCGCGATCTAGAAAACATCAACAACGTGGAA  
 GGCCTCACCGTGTGGTGAACCTTGCACTTGATTGATTTGGCTCGTCAATACACCACAAGGCTTGTGGGT  
 TTGCGTGCCGGCAAGCTGGTCTATGACGGTCTATCTCTGAGGCCACCGATAAAGACTTTGAAGCTATC  
 TATGGTTCGCCCCATCCAGGCTAAAGACCTGCTAGGTGATCGCGCA

RXS01002 - 3'-Region  
 TGACCACGCCTTCTTCTACACTT

RXS01003 - 5'-Region  
 AGCTGGTCTATGACGGTCTATCTCTGAGGCCACCGATAAAGACTTTGAAGCTATCTATGGTCGCCCCA  
 TCCAGGCTAAAGACCTGCTAGGTGATCGCGC

RXS01003 - coding Region  
 ATGACCACGCCTTCTTCTACACTTATCCACAAAAGCCTCGGGCTGGGGTAAAGACCTATCTCATCATC  
 GCGCCATCGTTGTCTTACCGTGGCAACAGCAACCCAGCGCTAGGTGGCATTGAGCTTGATTTGCGT  
 TCCATTGTGCGAATTGGCGCAATGGTGCCAAACAACTCCTGCAAATGCTGCAGCCCAACTTTGCGTTC  
 TTGCCTCGTACGTGGCTTCCCATGTTGGAAACCCTGCAGATGGCGCTTGTGGAGCTGTCTTGTCTGCT  
 GCCGTATCGGTGCCTTTGACGTTGTGGGCAGCGCAGGCAACCAACACCAGTGCATTGGTCTGGCATT  
 GTCCGCACCATCATTAACGTGGTGGCGCTCTGTCCCGACTTGGTGTATGCCACCATCTTGGTCGCCATG  
 GTTGGTGTGCGCGCATTACCTGGCATTTTGACGCTGTTTCTGTTCAACCTGGGCATCGTGGTCAAGCTT  
 GTCTCTGAGGCCATTGATTCCACTGAGCATCCCTATATGGAAGCAGGACGCGCAGCAGGTGGATCACAG  
 TTCCAAATCAACCGAGTCTCCGCGCTTCTGAAGTCATGCCGCTCTTTGCCAACCATGGCTCTACACC  
 CTAGAGCTGAATGTACGCATCTCCGCCATCCTTGGCATCGTGGGCGCAGGTGGCATCGGCAGGCTGCTT  
 GATGAACGCCGAGCTTTCTATGCCTACGCGGATGTTTCCGTGATCATCTTGAAATCCTCATCGTGGTG  
 ATTGTCAATTGAGTAATCTCCAACGCACTTCGAAAGAGGCTGGTA

RXS01003 - 3'-Region  
 TGAGCACCTTAACCTCTCACCGC

RXS01114 - 5'-Region  
 TTCGGTGAAGATATCCGCAAGCTGGTGTGCCGCAGCTTTTAGAAACGGCTCAAGCAATTTGACAGA  
 TCTCTCTGCACTCTAAATTAAGGATCAAAA

RXS01114 - coding Region  
 ATGAACCTCAAGATATTGTCATCTGTTCCCATTTGCGCACCCAGTTGGTGTCTACGGCGGATCCTTC  
 ACCGGCGTCCCTGTTGAAGAATTGGCCACCACCGTGATCAACGCGATCGTTGAGGCAACCGGCATCACC  
 GCGACGATGTGGACGATCTGATCCTCGGCCAGGCATCCCCAACGGTGGCGCTCCAGCACTGGGCCGT  
 GTTGTGTCTTAGATTCCAAGCTTGGCCAAAACGTTCCAGGCATGCAGCTTGATCGCCGCTGTGGTTCC  
 GGCCTGCAGGCAATCGTCACCGCTGCTGCACACGTTGCATCCGGCGCTGCTGATCTGATCATCGCAGGT  
 GCGCAGAATCCATGAGCCGCGTTGAGTACACCGTGTCCGGCGATATCCGTTGGGGTGTCAAGGGCGGC  
 GACATGCAGCTTCGTGACCGCCTTGCAGAAGCACGCGAAACCGCTGGCGGACGCAACCACCCGATCCCT  
 GGTGGCATGATCGAGACCGCTGAGAACCTGCGTCGCGAATACGGCATCTCCCGGAGGAGCAGGACAAG  
 ATCTCCGCAGCGTCCCAGCAGCGTTGGGGCAAGGCTGCTGATGCGGGGCTTTTCGACGACGAGATCGTG  
 CCAGTCACCGTCCCTGCCAAGAAGCGCGGCCAGGAGCCAACCATCGTTTCTCGAGACGAGCATGGTCTGA  
 CCAGGAACAACCGTCGAAAAGCTTGCTGCTTTGCGCCCCATCATGGGCCGCCAGGATGCGGAAGCAACC  
 GTCACCGCTGGCAACGCGTCCGGCCAAAATGATGGCGCTGCTGCCGTCATCGTGACCACTCGCGCCAAG  
 GCCGAGGAGAAGGGCTGCGCCAGTCATGCGTTTGGCTGGCTGGTCTGTGGCTGCTGTTCCCCAGAG  
 ACCATGGGTATTGGACCTGTTCCCTGCCACCAAGAAGGTCCTGGATCGTTGGGCTTACCCTGGAGGAC  
 ATCGGCGCGATCGAACTCAACGAAGCTTTTCGAGCTCAGGCACTGTCTGTGCTGAAGGAATGGAACATT  
 TCTTGGGAAGATGAGCGCGTCAACCCACTGGGTTCCGGTATTTCCATGGGACACCCAGTCGGTGCCACC  
 GGTGCTCGCATGGCAGTAACCTTGGCTCACCGCATGCAGCGTGAAACACTCAGTACGGACTGGCCACC  
 ATGTGCATCGGTGGCGGCCAGGCTTTCAGCTGTCTTTGAAAAGGAGAAC

RXS01114 - 3'-Region  
 TAAAAATGGCTATTTTGCACAGC

RXS01205 - coding Region

GTATCGGCCTATCCGCCGCCATCATCGCAGCGGCTCTCGTAGGAATTTGCGCGGGAGTTTTGCCCCAT  
AATTTTGAACCCTCGCGAATATTTATGGGCGATTCCGGCTCCATGCTCATCGGCCTGCTGTTGGCTGCA  
GCATCGACCTCAGCGTCAGGAAAAATCAACATGAGCCTGTATGGCGCAGCTGATTTTATCGCATTGATC  
TCACCCATCATCGTTGTTCTCGCCGCCGTGGCCATCCCACTGCTCGACCTCGTGATGGCAGTGGTTAGG  
CGCGTGGGCGAGGGGAGCATCACCTTTTCCCCGGACAAAATGCATCTGCACCACTGCTGTCCATC  
GGACACACCCATAGGCGCGTGGTCTAGTGCTCTACACCTGGGCGAGCGCCGTGGCATTGCGGCGCAGTG  
AGCTTCTCCGTCGTTCCGCCACTGTTGCCACCGGATCGAGCATCTGTGGCATCTCATCGCCGTCGCT  
GTCACAGCCGTGCCAGTGATGAAAAGCCGGCGAGCCGCCAACTTGAT

RXS01205 - 3'-Region

TAAGTGATTGTCACTTTGGATTG

RXS01223 - 5'-Region

GCGGGAGTGGACGGGCCGCCAGCCATCGGGGCGACAATCACGGGAGTTTTCAACGTGTCAAGGATGCTC  
ATGGCACCATCTAGGCGCGCCTGCCATAGG

RXS01223 - coding Region

ATGACTTCCGTGAGTTTTTTGTCTAAAAATCCAAGCACTGTTTGCCCCAAGCCTGAACTTCCCGCCGCC  
AAATGGCTGGTTCGTGGGCTGGGCAACCCCGCGCCAAGTACGAATCCACCCGACACAACGTCGGTTAC  
ATGTGCCAAGACATGCTTATCGACGCCACCAGCAGCAGCCCTCACCCCGCCACGGGCTACAAGGCC  
CTCACAACGCAGCTCGCACCAAGGGTGTCTCGCGTTTCGATCCCACTTTTATGAACCACTCCGGCCAA  
GGTGTGCGACCGATCGCCGCGAGCGTTGGGTATCCCAGCAGAGCGCATCATCGTGATCCACGACGAGCTC  
GATCTGCCCCTGGAAGTACGCCTGAAAAAGGGCGGAAACGAAACGGTCACAACGGCCTGAAATCC  
CTCACGGAAGAGCTCGGCACCAAGAGACTACCTGCGCGTCCGCATCGGCATTTACGACCAACAGCAGGA  
ATGGCCGTGCCGACTACGTTTTGGAACAGTCGATCACGACCAACAGGCATTGAACTTGCCGCCGAG  
GCAGTGATTGTGCTGTGGCCAGGGATTATCTGCTGCGCAAAACGCTATCCACAGCCGC

RXS01223 - 3'-Region

TAGATTGCTAGAGATTCCCGCAC

RXS01269 - 5'-Region

GATTATCTCTGCGCCGATTACAGCTGGCAATAGCAGCAGTTGTATTGAGAGCTCATGGTCGTCCGATTCT  
ATTTCTGTCACACGACCTGGGAAAGACGGT

RXS01269 - coding Region

GTGGTATTTGAGATGATTAAAGTTTGAACCATGCTTGAACCAGATGAAAAACATGTAAGTATGAACAG  
CGTCTAACTAAAGTTGGAAAGCTTCTGCGGGAAACGAGTTTAGATGAGTTACCTACACTCTGGAATGTA  
TTTAAAGGTGATATGAGCCTTGTAAGGCCCTCGACCTTTGCTTGTAGCTATCTGGAACATTACTCTTCT  
GAACAAGCTCGACGCCATGAAGTTCGTCTGGGATTACTGGTTTGGCTCAGGTGAATGGCCGTAATCAA  
ACTACTTGGGATGAACGACTTAAGTTGGATGTGCAATATGTGGATCGCTGTAGTTTGAAACTAGATTTC  
AAAATATTAATCGCCACTGTAAAAACAGTTCTTTCTAAAAAGGGCATTAGTAATGAAGGTCATGTCAG  
ATGCCATCCTTATTGAAGAAAGAAAA

RXS01269 - 3'-Region

TAGCAGGTAAAAATTTTACTTTC

RXS01421 - 5'-Region

TTGATGCACGTGCAGAAATCGTCGGCGGTCCGTGGCACCCATCTGTAAAGGGAGACTCGGTTACTGCAG  
GGATCCTGCGAGATCGAGTAAACGCCTAAAG

RXS01421 - coding Region

ATGACGTGAAAAGCATTAGCGGCAAGCGCCGAATCTGCCGTCGCTCACTGGAGCGCGGTGGCTCGCG  
GCGCTCGCTGTTTATTTTTTGCATGCGTTGGTGTTTTTGTGCGGTGTATCCGTTCCAGCAGTCGGAAC  
TTTGCCACAATCCATAAATTTGTCCCCATGCAGCTGGGTTTCAGCTGGTGTAACTTCTTCTTTATCTTG  
TCCGGATTTTGTATCTATTGGTCAAATAGCCAGCTCAAGGGCATGAAGAATGTGCTGTATTACTGCAAG  
CGCCGCATCACCAAGATTATCCCATGCACCTTGATTGCGTTGCCGATGTTTATTGAGGCGTCGGCGAAG  
TTCACGACTACAGGCATTACCTGGGTGCTGATTTTGCAGGAG

RXS01421 - 3'-Region

TAAAGCTGTGGCTGCGGAATGCG

## RXS01491 - 5'-Region

AACGGTGTGAAACACATTGAAGTGTTCGTTGGGTTATCCGCGCAATGGGAGCATTGGTCTGGGCAGCAT  
GTGTGGCCATATCCAGTGATGGAGGTGGACA

## RXS01491 - coding Region

ATGCTGGATGAGTCTTTGTTTCCAAATTCGGCAAAGTTTTCTTTCATTAAAACTGGCGATGCTGTTAAT  
TTAGACCATTTCATCAGTTGCATCCGTTGGAAAAGGCACTGGTAGCGCACTCGGTTGATATTAGAAAA  
GCAGAGTTTGGAGATGCCAGGTGGTGTGCACATCAGGCACTCCAAGCTTTGGGACGAGATAGCGGTGAT  
CCCATTTTGCCTGGGGAACGAGGAATGCCATTGTGGCCTTCTTCGGTGTCTGGTTCATTGACCCACACT  
GACGGATTCCGAGCTGCTGTTGTGGCGCCACGATTGTTGGTGCCTTCTATGGGATTGGATGCCGAACCT  
GCGGAGCCGTTGCCCAAGGATGTTTGGGTTCAATCGCTCGGGTGGGGGAGATTCCCTCAACTTAAGCGC  
TTGGAGGAACAAGGTGTGCACTGCGCGGATCGCCTGCTGTTTTGTGCCAAGGAAGCAACATACAAAGCG  
TGGTTCCCGCTGACGCATAGGTGGCTTGGTTTTGAACAAGCTGAGATCGACTTGCCTGATGATGGCACT  
TTTGTGTCCTATTTGCTGGTTCGACCAACTCCAGTGCCGTTTATTTTCAGGTAAATGGGTACTGCGTGAT  
GGTTATGTCATAGCTGCGACTGCAGTGACT

## RXS01491 - 3'-Region

TGAACTGGATGGAGAGGATACCT

## RXS01572 - 5'-Region

CTGCTGTGCGCAGGCATCACCACTACTCCCCAATCGCTCGCTGGAACGTTAAAGAAGGCGACAAAGTA  
GCAGTCATGGGCCTCGGCGGGACTCGGACAC

## RXS01572 - coding Region

ATGGGTGTCCAGATCGCTGCAGCCAAGGGTGTGAGGTTACCGTTCTGTCCCGTTCCCTGCGCAAGGCA  
GAACTTGCCAAGGAACCTCGGCGCAGCTCGCACGCTTGCGACTTCTGATGAGGATTTCTTCACCGAACAC  
GCCGGTGAATTGCACTTCATCCTCAACACCATTAGCGCATCCATCCCAGTCGACAAGTACCTGAGCCTT  
CTCAAGCCACACGGTGTGTCATGGCTGTTGTGCGTCTGCCACCAGAGAAGCAGCCACTGAGCTTCGGTGC  
CTCATCGGCGGCGGAAAAGTCCTCACCGGATCCAACATTGGCGGCATCCCTGAAACCCAGGAAATGCTC  
GACTTCTGTGCAAAACACGGCCTCGGTGCGATGATCGAAACTGTGCGCGTCAACGATGTTGATGCAGCC  
TACGACCGTGTTGTTGCCGCGACGTTTCAGTTCGCGGTTGTCATTGATACTGCTTCGTTTGTGAGGTT  
GAGGCGGTT

## RXS01572 - 3'-Region

TAGGTTTACTGAAGTTCAGACTT

## RXS01642 - 5'-Region

TTGGAATCACTGTGTCTTGCAGCTAGTCTGCCACTCGCACTGCATTTGCTGGATGTATTTGGAATGCTG  
CGCGGTCTTGATATTGGATTGCGGTGGATAAG

## RXS01642 - coding Region

ATGCGCAGACTCATCGCGTTAGCTTGGCCGCTCTGTTTATGTTGGCTTCCACTCCAGCGACGAGGGCA  
CAGGAAGTAGAAGCTCTCGCTTGCCCCGAGGTAGCGATCGCCGATCCTTCTCCGAGTTTTAGATGAA  
CACCTTTCGAGTCATTATCCCAAGCTCACCAACTAGCAACTGGCGCCGGTGTGATGGTGGCAGTCATC  
GACACCGGAGTATCCCTGCATCCACGTCTGCCCCACTTAATTCGCGCGGTGATTTCTGTTGGGCGCCAC  
CAAAGCCCCGATGTGCCAGGTGAACTTATCGATTGCGACGGCCACGGCACCATCGTCGCCGGAATCATC  
GCCTCCCAAGGAAACCCCGGCACCGGCTGGCCATATGACGGCAGCTCCGATCCTTATATCGGTGTGCGC  
CCAGATTCCGGAATCATCTCCATTAAACAAACAGCTCATATGTGCGTACTCGTGAAGATTCCAACGTC  
GGAACGCTGAGCACCCCTGGCGGAATCCATCCACCGAGCTCTCGATTCCGGTGGCCACGTGATCAATATT  
TCCGTGGTGTCTGTTTGCCCCAATCACCCGACGAGGCCGATCGTTCCAGCCTCTGACGGATGCTCTT  
AACAGAGCAGAAGTTCAAGGGGTGATAGTGGTGGCAGCAGCAGGAAACCTCGGGCAGGATTGTCCAGTT  
GGATCTACCGTTTATCCTGCACATTCAGACACTGTGCTCTCTGTGTCGGCAGTTTTGATTCTCACACG  
CTTGAGAATATTCCATGCCTGGCAACCAACAAATCCTCTCTGCACCAAGCCACATTACGGCTGGTCTA  
TCACCGCGTGGCGACGGCTTCGCCAGCCACATGATCACCACCGCTGGCGAAAGCCCCCTTCGAGGGCACC  
AGTTTTGCCGCTCCAGTTGTCAGCGCCACAGCTGCACTGCTTCGCCAGCATTTTCCCTTTGCCACACCC  
TATGAAATTTCGTGCACGAATCTTCAACAGCATCGACCCCTGCAAGAGGCGCTATTGATCCCTACCTGGCA  
CTTACTCAAGAAATCTATCCCACTTCCCCTGGTTTCATGAGATCGCACTAAGTGTTCACCGCCCGG  
GATGATTCTCCACGGGAGCGGGGATCCTAGTTACCGCAATCATTGTTGGGTTGCTCGCAGTGTAGCT  
GTGCTGATGGGACTACGCCGAATTCATCATCACTCGGCCTTTCAAAAAGCTAGCTCAAGTGTATCACT

## RXS01642 - 3'-Region

TAATCTATGAGGCACCGTTCAGA

RXS01902 - 5'-Region

GGCTGGTCCGAAGTGCAAACCTTCAACACCGGCACCTACGGTGACAACTGGAACCTCCTCTTCTTCGGC  
GACACCCAGCTGTACAACACCCACTCCAACC

RXS01902 - coding Region

GTGCAGAAGAAGTCCAGAACTGGGCAAACAACCTGGAACGGCGGCCACCAATCGAAAACCCAGGAACC  
TCCTTCATCCTCTCCGCGGGTGATCAGGCAAACCACTCCAGCTGGGACGAGCACTCCGCATACATCTCC  
CCAGAAACCCCTGCGCAACTACCGTCTGGCCGTGAACAATGGAACACGACCACTACAACCTACGACGCC  
TACAACCGCATGTACCCACGCCCTAACAGGTGATGAGAACTACTTCTTCGAGTACAACAATGCACATC  
TTCCTGTCCCTGGACTCCAACGACTACTTGGACATCGACGACGACATCGCATTCTTCGCGACACCGTC  
GCAGCACACGGTGACGACAAGGACTGGATCGTCTGACCTACCACCATTCACCTTTCTCCCAGGCCTAC  
CACATGGATGACGCTCGCATTAAGTACCAGCGCGAACGCCTCACCCCACTGATCTCTGAACCTGAACGTT  
GACTTGGTTCTCGGTGGACACGACCACATCTACACCCGCTCCCACCTGATGAACGGCTTCACCCAGTC  
GATGCAGGCCGCGAAGCAGTTGTCTGGTGAACCTCTGAACCTAAGGCCGGCGAAGTTGTTTACCTTGCA  
ACCAACTCTTCTCAGGCTCCAAGTCTACGACTTCTACGACTTCCAGCTCGGCCAGCGTTACGACACC  
GGACTGGATTTCCAGGAAACCGTCGATCAGAAGAAGATCCGCACCTACACCGCAGTCTGGAACCAAGGAC  
CAGGTTCCAGGACTACACCAACGTTGAACCTGACCCAGAAAGGCCTGACTGTGACCACTAAGGACGCAGTC  
TCCGGCGAGCTGGTTGACCAGTTCACCTGAGCAAGCAGGACCGCGACGAAGAATCTGAAGTCCAGTT  
GAAGATGACAAGGACGAGACAACGCGACCGGCTCCTCCAACCTTGGTCTAGCTGATCTCTGGCTCCA  
GTTCTGGCCATCTTCGGTTTCGTCGGTGGACTCTTTGTTGGCGGCGGCTCCCTCGCTGAGTTCTTTGCC  
AACCTCGGCGTGAAGATGCCTTTC

RXS01902 - 3'-Region

TAATACTGTCTGAGATTCAAGCA

RXS02453 - 5'-Region

AACCAACAAAGGTCATCTCAACCGGCTTAAGAAAATTCTGCCAGCTTTCTGCTGATTGAATCGTGCCAG  
CTCAGGGCATATCTCACCTAAAGTAAACACC

RXS02453 - coding Region

ATGAAATCAATCTTCAATTTCCGGTGC GGCGAACGGAATTGGCAAAGCTGTGGCGTTGAAATTTCTTCAC  
GAAGGTTGGCTCGTTGGAGCCTACGACCTCGCGGAAATCACCTACTCACACCCCAATCTTCGCTGGGGC  
TACCTCAATGTTGACAGTCCGAGTCTGTTGGACAAAGCCCTAGAAGACTTTGCGACGCACACCGGAGGC  
ACCATCGATGTGGTGGACAATAATGCCGGCGTAATTATTGAGGGACCGCTGCAGGACGCAGAGGAGGGG  
AGCGTCGACAAGCTTCTTGCAATCAACGTCAATGGCGTGACTCTTGGTGGCCGCGCCGCTCATCCTTAT  
TTGGCGCGCACGCGCGGCGCCAGTTGTTAAACATGTCTCGGCGTCCGCGGTGTACGGGCAGCCCCAG  
ATCGCGGTGATTTCGGCTTCGAAGTTTTACGTGCGAGGTCTTACTGAGGCGCTGAATTTGGAGTGGCGG  
AAAGACGATATTCGCGTGGTTCGATGTTTGGCCTTTGTGGGCGAAAACCGATTTGGTGAACGGCGTGAAG  
GCTAAGTCACTGAAGCGTTTGGGTGTCCGGATCACTCCGGAACAGGTGGCACAGGCGGTATGGGATGCG  
GTGCATCCGAAATCTCGGTGGGCGAAGGGAAGGTGCATCACGGGGTGTCAAAGTTGGATAAGGCGCTG  
TATCTCATGAAATCTCTGTCGCTGATCGGGTAGCGATGTGTTTTGCGCGACTAATCGCCGGA

RXS02453 - 3'-Region

TAAATGAATTGATTATTTTAGGC

RXS02474 - 5'-Region

TGCTGGTCTATTGTGGCGACCGAGGGCCTTTGAAGGTTTCGACAACTGTATAAGGCCTTGAATCTTGAG  
AATTTATTTTGGAGGAAGCAAGAGGAAGTGTC

RXS02474 - coding Region

ATGAGCAAAGTTGCAATGGTTACCGGTGGTGCACAAGGCATCGGTCTGGAATTTTCAGAGAAGCTGGCA  
GCAGATGGTTTTGATATTGCCGTAGCCGACCTGCCACAACAGGAAGAACAAGCTGCAGAGACCATCAAG  
TTGATTGAAGCTGCAGGTCAAAAGGCTGTATTCTGTTGGATTAGATGTCACCGATAAGGCTAATTTTCGAC  
AGTGCAATTGATGAGGCAGCAGAGAACTTGGCGGCTTCGATGTGCTAGTAAACAACGCCGGCATCGCA  
CAAATTAAGCCACTTCTGGAAGTCACCGAAGAAGACCTAAAGCAGATCTACTCCGTGAACGTTTTAGC  
GTATTTTTTGGTATTCAAGCAGCATCCCGAAAGTTTCGATGAGCTTGGCGTAAAAGGCAAGATCATCAAC  
GCTGCATCAATCGCTGCTATCCAAGTTTTCCAATCTTGAGCGCTACTCCACCACCAATTCGCGGTT  
CGTGGCCTCACCCAGGCTGCTGCGCAAGAACTCGCACCCAAAGGTCACACCGTGAATGCCCTACGCACCT  
GGCATCGTGGGACCGGAATGTGGGAGCAAATCGATGCCGAGCTTTCCAAGATCAACGGCAAGCCAATC  
GGTGAGAACTTCAAGGAGTACTCTCTCAATCGCATTGGGCGGACCATCAGTACCTGAGGATGTAGCC

GGTCTGGTTTCGTTCTCGGCTTCTGAAAACTCCAACCTACATCACCGGACAGGTCATGCTTGTGCGACGGC  
GGCATGCTCTACAAC

RXS02474 - 3'-Region  
TAGGGGTTGCTTTCCCGCACTCA

RXS02485 - 5'-Region  
CGGTGGTCAGTGCTTGGTGCACCTTGCCGACGGGCTGATTGATCGTAATGGTGTTTTCTGTACGCGTTG  
CCATGAGGATAAGACTACCGTTAGTGGGGTG

RXS02485 - coding Region  
TTGGATTTCATCGCTAGCCAGGAAATCGCCGCGATCGACGGCGTCGAACCTCGATTGCGGAAGTCACCTTC  
GCCGATCTGACGACCCTCCGCATCGGCGGAAAACCCCGCAGCGCCGTACGTTGCCAGACCACGGAGGCG  
CTGGTCAGCGCCATAAAATTGCTTGACGACGCCTCCCTCCCCCTCCTCATTGTGCGGCGGCGGGTCCAAT  
CTCGTCGTGGCCGACGGCGATCTGGATGTTATTGCCGTATCATCGAAACCGACGACGTCTCCATCAAC  
CTCACCGACGGTCTCCTCACCGCCGATGCAGGCGCTGTTTGGGACGATGTTGTCCACCTTTCGGTGGAT  
GCCGGCCTCGGTGGAATTGAATGCCTCTCCGGAATCCCCGGCTCCGCCGGCGCCACCCAGTCCAAAAC  
GTGGGCGCCTACGGCACGGAAGTTTCCGATGTACTCACCCGCGTCCAGCTTCTCGACCGCACCCACCCAC  
CAAGTCTCCTGGGTGACGCGCTCCGAACTCGACCTCTCTTACCGATACTCCAATCTCAAATTCACCAAC  
CGCGCAGTCGTCTTGGCGATCGAACTCCAGCTCCTCACCGACGGATTGTCCGCGCCGCTACGTTTTGGT  
GAATTGGGACGTGATTAGCGATCTCCGAGGCCGAACCCACCGTCGCCCCGTCCGCATGGTCCGC  
GACGCCGTCTAGAACTCCGCCGCGCAAAGGCATGGTCGTGGAACACACCGACACACCTGGTCC  
GCCGGATCCTTCTTACCAACCCAATCGTCGACCCAGCCCTTGGCGACGAGTCTTTGAAAAAGTCGGC  
GAACCCACCATGCCCCGCTTCCAGCCGGCGATGGCAAAGAAAACTCTCCGCAGCCTGGCTCATCGAA  
CGCGCCGGCTTCAAAAAGGGACACCCCGCGCAGGCGCAAAGCCTCCCTGAGCACCAACACACCCCTC  
GCACTACCAACCGTGGCGACGCCCCGCGCCTCCGACCTCGTCGCATTAGCCAAAGAAATCCGCGACGGA  
GTCCTCGAAACCTTCGGCGCTCACCTCGTCCCAGAACCCGTCTGGATTGGAATCAGCATCGATGAC

RXS02485 - 3'-Region  
TGAATTTTCCGACGTCCCTGGCA

RXS02539 - 5'-Region  
GGCTGCTAAGCGTGCGAATGTGCGCGTTGTCACAATCGTTGACCAAGTGTCACCTGACGCACAGGTAGT  
GCTCAGGTGGAGGTGGCCCAAAGGAGACCCA

RXS02539 - coding Region  
ATGACTGTCTACGCAAATCCAGGAACCGAAGGCTCGATCGTTAACTATGAAAAGCGCTACGAGAAGTAC  
ATTGGTGGCAAGTGGGTTCCACCGGTAGAGGGCCAGTACCTTGAGAACATTTACCTGTCACTGGTGAA  
GTTTTCTGTAGGTGCGACGTGGCACCAGCGGACGTGGAGCTTGCACTGGATGCTGCACATGCAGCC  
GCTGATGCGTGGGGCAAGACTTCTGTGCTGAACTGCTCTGATCCTGCACCGCATTGCGGACCGCATG  
GAAGAGCACCTGGAAGAAATCGCAGTTGCAGAAACCTGGGAGAACGGCAAGGCAGTCCGTGAGACTCTT  
GCTGCAGATATCCCACTGGCAATCGACCACTTCCGCTACTTTGCTGGCGCGATCCGTGCTCAGGAAGAT  
CGTTCCTCACAGATCGACCACAACACTGTTGCTTACCACTTCAACGAGCCAATCGGTGTTGTTGGTCAG  
ATCATTCCTTGGAACTTCCCAATCCTCATGGCTACCTGGAAGCTCGCACCGGCACTTGCTGCAGGTAAC  
GCGATCGTCATGAAGCCAGCTGAGCAGACCCAGCATCCATTTTGTATCTGATTAACATCATCGGCGAT  
CTCATCCCAGAGGGCGTCTCAACATCGTCAACGGACTCGGCGGTGAAGCAGGCGCTGCACTGTCCGGC  
TCTAATCGGATTGGCAAGATTGCTTTCACCGGTTCCACCGAGGTGGCAAGCTGATCAACCGCGCTGCA  
TCCGACAAGATCATTCCTGTACCCCTGGAGCTCGGCGGTAAAGTCCCCATCCATCTTCTTCCGATGTT  
CTGTACAGGATGACGCCTTCGCAGAGAAGGCAGTTGAAGGCTTCGCGATGTTCCGCCCTCAATCAGGGT  
GAAGTTTGTACCTGTCTTCCCGTGCACCTGTTTCATGAGTCCATCGCTGATGAATTCCTCGAGCTTGGC  
GTGAAGCGAGTTCAGAACATCAAGCTGGGTAACCACTTGATACTGAAACCATGATGGGTGCTCAGGCG  
TCCCAGGAGCAGATGGACAAGATCTCCTCCTACCTGAAGATCGGCCAGAGAAGGCGCTCAAACCCCTC  
ACTGGTGGCAAGGTCAACAAGGTTGATGGCATGGAGAACGGTTACTACATTGAGCCAACCGTTTTCCGC  
GGCACCACGACATGAGGATCTTCCGCGAGGAAATCTTCGGACCAAGTCTTTCTGTTGCTACCTTCAGC  
GACTTCGATGAGGCCATCCGTATTGCAAACGACACCAACTACGGCCTCGGCGCTGGTGTCTGGAGCCGT  
GACCAAAACACCATTTATCGTGCAGGTGCGCAATCCAGGCTGGTTCGAGTTTGGGTCAACCAGTACCAC  
AACTACCCAGCGCACTCCGCTTTCGGTGGATAACAAGGAGTCCGGCATCGGCCGTGAGAACCACCTCATG  
ATGCTGAACCACTACCAGCAGACCAAGAACCTGTTGGTCTCCTACGATCCAAACCCAACCGGACTGTTT

RXS02539 - 3'-Region  
TGATCTAAGCGTTAAGTCCTAGA

RXS02554 - 5'-Region

GCTTTTGAAGTGTGTGTCGCGTGTGCGGACTGAAATAGTTTCCGCTTCAACTTGGTTGCTAAGGATAGGCT  
CCATAAAAATAACCAAAGGCGGAAAAATTTCA

RXS02554 - coding Region

ATGTACACACTAAGCCATCCATTGCCATCCTCGGTGCTGGCCGAGTGGGTTCTTCACTTGCCAGGTCA  
GCGGTGCGCCGAGGCTATGAGGTAAAGGTTGCTGGTTCAGGTGCTGTGGACAAAATCGCTCTTACCGCT  
GAGATCCTTATGCCCCGGCGCGGTTCCAAGCACTGCTGACCAGGCTGTAAAGGATGCAGATATTGTGTTT  
TTGGCTGTTCCCCTGCATAAATTCCGCAGTGTCAATCCAGCCACTTTAGAGGGCAAGATCGTTATTGAC  
ACGATGAACCACTGGGTTCGGGTCAATGGTGAGTTGGAGGAAATTGATCAGGATCCGCGCAGCACTTCG  
GAGATTATTGCGGAGTTTTTCGCGGGATCAACCATGGTGAAGTCTTTTAACCACATTGGTTATCACGAG  
ATTGAGCAGGATGCGGGTACCGGGCGTGCATTGCGTATGCCACGGATGATGTGGATGCAGGTGCCGAG  
GTTGCACAGCTAATTAAGAGTTTTGGGTTTGTTCCTTTAAATATTGGCGCATTGGAAAACGGCCGTATT  
CTGGAACCTGGCCAAGAAGCTTTCGGCGCGCACCTTAATAAAGATTTCGCGCCTAGAACTTGTTAATCAG  
CGG

RXS02554 - 3'-Region

TAGTACCTCGATCTTCAGCCAAC

RXS02560 - 5'-Region

TTGGGGCAAGCCAGCTAACGCATTTCTTGTGGAAACCGCAGACATTGAGGCCGCCACGCGGAACCTTCT  
AAGAGCAGTGGAATGAAATAATCCGGTGCTG

RXS02560 - coding Region

ATGCAGGGCAACTCGCTTAATCTGGCAGACAACAGCGAGAGAAAGAAGCCCATGCCGTCACCAGGAGAA  
CTTTTAGCCGCCCCGCTACGGACAACCTGCAACCTGGACGCCACCGCAGTGGAATGAGACGCTTGATGTC  
ATTACACGATCGATCAGTTTCGAGGTGGTTGGATAAACCGGTTGATGATGACACCATCCGCACCATT  
ATTTCCGCCGACAATCGGCTGGAACCTCTTCCAATAAGCAGGTCAATTTCTGTCACTGTTTAAAGAT  
CCTGAGCTGAGGAAAGGCCTCGCGGGGATCACTCGCCAGATGTTTCCGCACCTTGAGCAGGTTCCCGCG  
GTGCTGATTTGGTTGATTGATTATTTCCCGAATCAGTGCGGTGGCAGCCAGAGAAGATCTCCCAACAGGG  
GCTCTTGATTATCTCGATGAGGCCGCGTGGGGGTTCTCGACGCCGGAATCGCAGCTCAAAACGCTGCA  
ATTGCTGCGGAGTCACTTGGATTGGGAACGCTCTATTTGGGTTTCGGTGCGCAACGATGCGGAAGCCGTG  
CACAAATTGCTTGGCCTTCCACCTGAGATCGTGCCTGTCTGGGCTTGGAATGGGGCATGCGGATCCG  
CCTGAACCTGCCGGAATTAAACCTCCCCTGCCACAAGAAGCCATTGTTCACTGGGATACCTACACCGAG  
AAAACCTCGAATTTATCGATTCTACGACCGCGCCCTCGACACTTACTATTCTCGCTACGGCCAGCAC  
CAGCTCTGGTGAAGCAGACGGCGCATAGGGCGGCGTCAAAAAGCTTTTCAAAAACCAACAGGCAGTTC  
CTTAGGGGCGTGTGTTGAGCGCGCCGGGTTTGGGCTGAGA

RXS02560 - 3'-Region

TAAAAGCATGATTATGGACGCCT

RXS02578 - 5'-Region

GGCAAAAATGAGGAACAGCACGCCCGCAATAATGAGGACCGTTGCAGATCGCTTCATAAAAACAGCCCA  
CACCTTTCCGCTAAACTCGCATGTTGAAATA

RXS02578 - coding Region

ATGTCTACCCAATCATATGCACCCATCCGCCATCGCGGATTTCATCAGCTCACTCGAGGGACTACGCGCA  
ATCGCCTCCCTGGGAGTCTTGGCGACCCACGTTGCATTCCAAACCTCCGTCGACCCCGCCAGCAACATC  
GGTGCAGTACTCGCGCGTTTCGACTTTTTTCGTCGCGCTTCTTTCGCCCTCTCCGCCCTTCGTTCTTTGG  
CGACGCCGCGCCGGGCAACCAGTGGGACTGTACTACCTCAAACGCCTAGCCCGCATCATGCCCGCATAC  
TGGGCAACGGTCATTGCAGTCCTGCTGTTTATTTCCACCGGCCCTGGTTAGCCAACCTGACGATGACC  
CAAATCTACTGGCCAGACGGGCTCATGACAGGCCTCACCCACCTTTGGTCCCTGTGCGTGGAAGTGGCG  
TTTTACCTGGTGATGCCGCTTCTCGCGTGGGTGTTGGATAGGTTTGGTCGGCCGTTGCGCATCTGTTG  
ATTGTTGGTGGGGCAGTGTTGAGTCTGGCGTGGCCGTGGATTCCCCTTGTGGAGCATGCGTTGGACGAG  
GGGTGGGCGAACATGCAGATCTGGCCACCCGCTTACGCTTGCTGGTTTGAGTCGGCATGATCGCCGCA  
GAAATTGAAGGAGTTCGATTCCACGGGTTCCGAGCTTTGTGTGGGTGGGTTAGCTTTAGTGGTTCGCT  
TGGATCGCGCGGCAAGAATGGTTCGGACCACTAGGTTTAGTGCACCCAGCCCTGGGAATTCACCTTA  
AGAGTCTCGCGGGCACACTTTTCGCTGTATTTCTGGTGGTTCCCTACGCGCTGGGTACGCCCTCTCGG  
CTTCTTGATTCCAGTTGGATGAAAACGCTCGGCACCTGGTTCGATTCCATCTTCTCTGGCACCTTCCC  
GTGCTGACGATTGTGTTCCCACTGCTCGGGTTGCCTTTATTTAGTGGAAATTTCTGTTGGTGTTCATC

GTGACGGTCTTGTGACGATCCCAGTTGCCGCCATCAGCTACACCTTCATCGAAGAGCCCATCAGCGGT  
GGACCCGGCGGCCATTACAGCTGGGGGTCGTTAGGATTCACCATTTTTCTGGGGGTAGGTCTGGAAAA

RXS02578 - 3'-Region  
TGATGAATTGGCACCACGTCAAG

RXS02741 - 5'-Region  
ACTGGTCACCTGGTTTGGTCTGCACTCTGACTCCCCTCAAAGGGCACAATTTGGTCAATTTCCCAACC  
TTGTCTTTTCAATCATGGTTAGTGTGGGAACC

RXS02741 - coding Region  
ATGAAGGCAATCTTAGTTTCCCGCACCGGCGGACCAGAGGTGTTGGAGTTCCACCGACACTGACGCCCCA  
AAGCCCACTGATGATCAGGTTTATGTTGAAGTTGATATGGCTGGCGTCAACTTTATTGATACTTACTAT  
CGCCAGGGTGAATATCAGCTCGCCTGCCGTTTATCCAGGTTTGAAGGCACTGGTCGGGTGTTGGAG  
GATCCGCGAGGGGTTGATTGCGGCGGGTACCAAGGTGGCGTGGTGTGATGCCATGGGTTCGTATGCTCAG  
CAGGTGTGTGTGCCGCGGGATCGCTTGGTGGCGGTTCCCAGGGCGTGAGTTCGGAAGTGGCTGCGTCCG  
ATGTTGATGCAGGGAATCACTGCGCATTATCTAACCAATGGTGTGTATGAGCTTGAAGAGGGCGATTCT  
TGCCTCATCACTGCTGGCGCGGGTGGTGTGGATTGTTGGCTACGCAGATGGCGGCGGCCAAGGGAGTG  
CGCGTGTACAGCGTGGTGTCCACGGATGAAAAGCTGAGCTTGCTTTGGATGCCGGTGCCTTATGAGGTG  
TTTCGTTATTCCGATAATTTGGCGGAGCAGGTTTCGTGGCACAACGGGGGTCGCGGAGTTGATGTGGTG  
TATGACGGTGTGCGGCCAGTCCACGTTCAATGAGTCCTTAGAGGCTGTTTCGTCCGCGCGGCACTGTGTGT  
TTGTTTGGTGCGGCGTGGGTGCTGTGGAGCCTTTTATCCGAGCTGTTGAACACTCACGGTTCGATC  
TTCTTGACCCGCCCCAAGCATTGGCGCGTGGACGCTGAGGAGGGCGAATTTGCCAAGCGTGCACAGGCG  
GTCACGCAGGCCATCGTCGAAGGCACCTTGGCGGTTTCGCGTTACTGGCACATATTCGCTTGCCGACGCC  
TACATCGCCACCGCGACCTTCAGGCGGTAGCACGAGCGGTTCTTTGGTCTTGGAATCCCGAAGGAC

RXS02741 - 3'-Region  
TAAACACGCATAAAAAGATCCTG

RXS03058 - 5'-Region  
ACGAGCTTCCGCTCTGCACAAGCCGCTAGAAGCCCCGCATAGCCCTAATGTAGAGCTCATGCCCATTTG  
GAATCACAACACCGCATATCGGCCATGGCTG

RXS03058 - coding Region  
GTGTCAAAGCTCAAAGGCTCAAGATCGCTTCTCGACGTGGGCTCCGGCGATCACTCCTTCGCCGACCTG  
GCCGGCCGCCAGGTCGCGCATGTCGATGTCGTGGATCCTCTTATTAATACAACCTTTGAAGAATTCCAG  
CCGACCCAAAGCTACGATGCCATCACGTTTCATCGCGTCCCTCCATCACATGAACGCGGAAGAAGGACTT  
AACAAAGCAGTCCGAATCCTCAATCCTGGCGGCAAGCTCCTCATCGTAGGCCTCGCCAAAAACAAAACC  
GCCTCCGACTGGATCATCTCCGGACTACAAGCTTTTCTCTCCCGACCAATCAGCCTCATCAATAGGGAA  
CAACAAATCTACCCCTTCCCTACCAAGAACCCTCAGAGAGTCTCCACGAAAACGACAACCTACCAAG  
CAGCTCCTCCCTCACCGCGGTATTTCGCCGTGGAATCCACTTCCGATACCTCCTCGAGTGGACAAAGCCT

RXS03058 - 3'-Region  
TAAACAGCCCTATAAACCAAAAA

RXS03061 - 5'-Region  
CTGCCACCACTGGTCATTGCAGAGGACACTCTCCGTGATGGTCTTCAGGTGTTAGTCGCAGCCCTAGAG  
CGCGAAACCGCGCACCAGAAGGTGGGCTAAA

RXS03061 - coding Region  
GTGTCTTTGACCTTCCAGTAATCAACCCAGCGATGGCTCCACCATCACCGAGCTAGAAAACCACGAT  
TCCACCCAGTGGATGTCCGCGCTCTCTGATGCAGTTGCAGCTGGTCCCTTCATGGGCTGCGAAAACCTCC  
CGCGAAAGATCCGTGGTACTCACCGCAATCTTCAAGCACTGACCGAACGCGCCCAAGAACTTGCAGAG  
ATCATCCACCTGGAAGCTGGAAAATCCGATGCAGAAGCTCTTGGTGAAGTCGCTTATGGTGCAGAATAC  
TTCCGTTGGTTTGGCGAAGAAGCAGTGCAGCTGCCCGGCGCTACGGACAGTCA

RXS03119 - 5'-Region  
TGGGAGGTGTGCGACCAAGTACTTTTGCGAAGCGCCATCTGACGGATTTTCAAAGATGTATATGCTCG  
GTGCGGAAACCTACGAAAGGATTTTTTACCC

RXS03119 - coding Region

ATGGCTGTATACGAACCTCCAGAACTCGACTACGCATACGACGCTCTCGAGCCACACATCGTCGCTGAA  
ATCATGGAGCTTGACCAAGTCCAAGGACGCAACCTACGTTGCGGGCGCAAATGCAGCACTC

RXS03119 - 3'-Region  
TAGGCACTAGAGAAGGCACGCGA

RXS03120 - 5'-Region  
CTGGGCAGTTCTTGGGTACGACCACATATCCGGTCGCCTGGTTATCGAGCAGCTCACCGACCAGGAGGG  
CAACATCTCCTTCGACATCACCCCAAGTTCTG

RXS03120 - coding Region  
ATGCTCGATATGTGGGAGCAGCTTTCTACCTGCAGTACATGAACGTTAAGGCAGATTACGTCAAGGCT  
GTTTGAACGTCTTCAACTGGGACGACGCAAGAGCAGCTTCGCAGCAGCTTCCAAG

RXS03120 - 3'-Region  
TAAGCATTTTTAGTCCGTGCAAT

RXS03150 - 5'-Region  
TTTAACAGAGTGCCTTTCAATGCCTGTAGTGTTCGGCAATTTTGAATGTCGTTACGGTTACCCAAGGC  
TGAATTCCTGAGCTCACCTTGTACAAGATCA

RXS03150 - coding Region  
GTGGAAGCCCAGTTACCTCTCCCCTGCTCAACAATGGGCAAACCTGTTTCCTTGGTACCCGAATCCTT  
GCTCCAAAATCACGTTACGCGGAAGTAGTCGATGCATTACCGCTTTTCGCTGGCAGCCTGCAGGTTGGA  
GTCACGTCCTCCCCTGACACTCAGATCGGACCGATGGCGACTGCCCGGCAGCGTGAGCGCGTGGAATCC  
TACATTTCCCAAGGCAAAAATGCTGGAGCCCGCATCACTGTTCGGTGGCAGCCGTCCACGAGATCTTGAC  
GCCGGATTCTTCGTTGAGCCAACAGTGTTTCGCCGATGTAGACAATCGCGCAGCCATTGCCCCAAGATGAA  
ATCTTCGGACCGGTGCCCTCTGTTGTTTCTACCAAGACGATGAACACGCCATCCAAGTAGCCAACGAT  
TCCGAATTCGGTCTCGGCGGAACTGTCTGGACGAGCGATCCCGAGCGCGGCGCTGCATTGGCCCGCCGA  
GTTACACAGGAACCATTTGGCATCAACCGCTATATCCCTGATCCCGCCGCACCATTTGGAGGTGTGAAA  
AACAGTGGCCTTGGCAGAGAACTCGGCCCCGAAGGTCTTGCTTCTACCAAGAAACCCAAACCATTTAT  
CTC

RXS03150 - 3'-Region  
TAATCCAAACTGCACCTATATAT

RXS03218 - 5'-Region  
TTGGTACGGGGGTTAAACACCTAGCTTTGTATCTGAAGGCTTCGGAGATTTCTGTATACATCAACAAT  
TGCCCTTTAACCAGGAGTATTCTTAGCTTCT

RXS03218 - coding Region  
ATGACTCCTGATCTTGCAGCTTTTCTGGACAACTTTATGCCGAGGGGCAGGAATTTGATGCAGAGCAA  
CCGGATCGGCTTGATCGCAGGAGAAACCTTGAATCTGAAAGCGCTGCGCTACTTCGCTCGCTCATCTAC  
GGAATTAGTCCAAAGTCAGTTCTCGAGCTAGGCACATCCAATGGTTACTCGACTATTTGGATGGCAGAT  
GTCGTGAATTTAACAACAGTAGACAATGATCCTGAGCGGTCTTTGGATGCTGCAGCAAACCTTCGCGCC  
GCTGGAGTTGAAGAAAAAGTTCAACGAATCGTCGCCGATGGAGCAACCGTACTTGCCGATTCCGCGGAT  
GAACAATGGGATTTCAATTTCTTGTATGCCGAACAATCACTCTATGTAAATTGGTGGCCTGACCTGCAA

RXS03218 - 3'-Region  
TGAGTTCTAGCAAATGGCGGCTTGTTAGTG